DSWA
DELAWARE SOLID WASTE AUTHORITY

Richard P. Watson, P.E., BCEE
Chief Executive Officer

Robin M. Roddy, P.E., BCEE
Chief Operating Officer

July 28, 2017

Mr. Ali Mirzakhalili, P.E.
Division Director
Division of Air Quality
Department of Natural Resources and Environmental Control
Blue Hen Corporate Center
655 S. Bay Road
Suite 5 N
Dover, DE 19901

Dear Mr. Mirzakhalili:

RE: AQM-003/00111-Renewal 2 (Revision 2)
CHERRY ISLAND LANDFILL
SEMI-ANNUAL REPORT

Enclosed are two (2) copies of the Cherry Island Landfill (CIL) semi-annual report for January 1, 2017 through June 30, 2017. This report is submitted to comply with permit AQM-003/00111-Renewal 2 (Revision 2). Please note the entire permit number does not fit on all of the forms. Therefore AQM-003/00111 R2 R2 should be taken to represent the full permit identification.

I certify the statements and information provided in this document, to the best of my knowledge, are true, accurate and complete. If you have any questions about any of the information provided please contact V. Nicole Gallagher Burkhardt at (302) 764-5385.

Yours truly,

Robin M. Roddy, P.E., BCEE
Chief Operating Officer

RMR:um
Attachments

c: R. P. Watson, P.E., BCEE
L. V. Miller, P.E., BCEE
L. B. Kocenko, P.E., BCEE
V. N. G. Burkhardt, P.E.
Brad Klotz (DNREC)
U.S. EPA (3AP20)

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section	AQM-1001DD

SEMI-ANNUAL REPORT	FOR DEPARTMENT USE, ONLY
	DATE RECEIVED:
	DATE REVIEWED:
	REVIEWD BY:

The Company shall submit to the Department and EPA Region III a report of any required monitoring and a report of any deviation(s) from permit requirements. This report shall be submitted no later than August 1 (covering the period from January 1 through June 30) and February 1 (covering the period from July 1 through December 31) of each calendar year. [Reference 7 **DE Admin. Code** 1130 (Title V) State Operating Permit Condition 3.3.2 and 7 **DE Admin. Code** 1130 Sections 6.1.3.3.1, 6.1.3.3.2, and 6.1.3.3.3.4 dated 12/11/00] Refer to the Instructions for Completing Semi-Annual Reports and Form AQM-1001DD dated July 27, 2001 and revised November 22, 2004 for questions concerning the use of this form.

Part A FACILITY INFORMATION

1. Facility Name: Cherry Island Landfill (CIL)
2. Facility Street Address: 1706 East 12th Street

3. City: Wilmington	4. State: DE	5. Zip Code: 19809
6. Permit No.: **AQM-003/00111-R2R2**	7. Facility ID No.: 1000300111 (9 digits)	8. Date Permit Issued: 12/18/2015
9. What is the Reporting Period? 01/01/2017 TO 06/30/2017		10. Date Form Prepared: 07/28/2017

11. Technical Contact: V. Nicole Gallagher Burkhardt, P.E. Title: Landfill Gas Engineer

    Phone Number: 302-764-5385 Fax Number: 302-764-5386 E-Mail Address: vngb@dswa.com

12. Has any of the information contained in Items 1 through 5 of Part A and/or Part E, Responsible Official, changed from that in the issued 7 **DE Admin. Code** 1130 Operating Permit? ☐ YES ☒ NO

    If YES, submit a request for an Administrative Permit Amendment per the requirements of 7 **DE Admin. Code** 1130 Section 7.3

Part B REPORT OF ANY REQUIRED MONITORING

1. Are you submitting an Initial Report of Monitoring? ☒ YES ☐ NO
   If YES, complete Table 1 – Report of Any Required Monitoring.
   If NO, go to Question No. 2.

2. Are you submitting a Revised Report of Monitoring? ☐ YES ☒ NO
   If YES, complete Table 1 – Report of Any Required Monitoring.
   If NO, Complete Part C; Part D, if applicable; Part E; and Part F.
   *Reference 7 **DE Admin. Code** 1130 Section 6.1.3.3.1 dated 12/11/00 and the 7 **DE Admin. Code** 1130 (Title V) State Operating Permit Condition 3.3.2.1*

Part C IDENTIFICATION OF DEVIATIONS

1. Do you have any deviations that you are reporting? ☒ YES ☐ NO
   If YES, complete Part C – Identification of Deviations – Table 2.
   If NO, complete Part D, if applicable; Part E; and Part F.
   *Reference 7 **DE Admin. Code** 1130 Section 6.1.3.3.2 and Section 6.1.3.3.3.4 dated 12/11/00 and the 7 **DE Admin. Code** 1130 (Title V) State Operating Permit Condition 3.3.2.2*

7 **DE Admin. Code** 1130 **(Title V) State Operating Permit Program** **Air Quality Management Section** **SEMI-ANNUAL REPORT**	**AQM-1001DD**

Part D ADDITIONAL INFORMATION

1. Does the Company possess any additional information that demonstrates compliance and/or non-compliance with any applicable requirement contained in the issued Title V permit? ☐ YES ☒ NO
   If YES, complete Table 3 – Additional Information
   Reference Condition No. 3.3.2.3

2. Is the Company submitting any attachments with the Semi-Annual Report? ☒ YES ☐ NO
   If YES, please identify all attachments. If additional space is needed, please use Table 4 of this Form

Part E CERTIFICATION BY RESPONSIBLE OFFICIAL

I, the undersigned, hereby certify under penalty of law that I am a Responsible Official and that I have personally examined and am familiar with the information submitted in this document and all of its attachments as to truth, accuracy, and completeness of information. I certify based on information and belief formed after reasonable inquiry the statements and information in this document are true, accurate, and complete. By signing this form, I certify that I have not changed, altered, or deleted any portions of this form.

Responsible Official Signature: Robin M. Roddy Date: 7/28/17

Responsible Official Name: Robin M. Roddy, P.E., BCEE Phone Number: 302-739-5361

Responsible Official Title: Chief Operating Officer

Part F SUBMITTAL INFORMATION

1. The Semi-Annual Report is due February 1 and August 1 of each calendar year.

2. The Semi-Annual Report shall be submitted to the following locations:

Submit One (1) Original and One (1) Copy:	**Submit One (1) Copy:**
State of Delaware – DNREC **Division of Air and Waste Management** **156 South State Street** **Dover, DE 19901** **Attn: Program Administrator**	**United States Environmental Protection Agency** **Associate Director of Enforcement (3AP12)** **1650 Arch Street** **Philadelphia, PA 19103**

*Reference 7 **DE Admin. Code** 1130 (Title V) State Operating Permit Condition 2.1.3 and 3.3.3.1 and 7 **DE Admin. Code** 1130 Sections 6.3.5.1 and 6.3.5.4 dated 12/11/00.*

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
1	Condition 3 -Table 1 (a)(1)(i) The flares shall be operated with no visible emissions as determined by Reference Method 22 (RM 22), except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.	Monitoring of emissions from flares in accordance with Condition 3 - Table 1 (a)(1)(i).	NO	
1	Condition 3 - Table 1 (a)(1)(iv)(A) Each portable passive flare shall be used for temporary installation and operation only as odor control device. The passive flares do not in any way relieve the Company of the requirements of Condition 3–Table 1(b), (c) & (d), and cannot be used as a substitute control device.	Record keeping of passive flare use in accordance with Condition 3 - Table 1 (a)(1)(iv)(A).	NO	
1	Condition 3 - Table 1 (a)(1)(iv)(B) Each portable passive flare assembly shall be tagged with a permanent identification that designates and identifies an individual flare unit. This designation shall be used in all relocation correspondence.	Record keeping of passive flare identification in accordance with Condition 3 - Table 1 (a)(1)(iv)(B).	NO	
1	Condition 3 - Table 1 (a)(1)(iv)(C) The identification tag shall be of a physical form approved by the Department, such as a welded or riveted plate or engraving.	Record keeping of identification form in accordance with Condition 3 - Table 1 (a)(1)(iv)(C).	NO	
1	Condition 3 - Table 1 (a)(1)(iv)(D) Each flare unit and connected piping system shall be maintained in proper operating condition.	Monitoring of flare unit condition in accordance with Condition 3 - Table 1 (a)(1)(iv)(D).	NO	
1	Condition 3 - Table 1 (a)(1)(iv)(E) Each flare unit shall be equipped with a flame arrester to prevent flashback to the landfill.	Record keeping of passive flare flame arrester in accordance with Condition 3 - Table 1 (a)(1)(iv)(E).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
1	Condition 3 - Table 1 (a)(1)(iv)(F) Each flare unit relocation shall be for a period of time not to exceed 180 days unless another time period is submitted to and approved by the Department. Any request to extend that time period shall be submitted to the Department a minimum of 30 days prior to expiration of the 180 days.	Record keeping of passive flare usage in accordance with Condition 3 - Table 1 (a)(1)(iv)(F).	NO	
1	Condition 3 - Table 1 (a)(1)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Monitoring and record keeping in accordance with Condition 3 - Table 1 (a)(1)(v).	NO	
1	Condition 3 - Table 1 (a)(1)(vi)(A) The number of hours and days each flare is in use.	Monitoring of passive flare usage in accordance with Condition 3 - Table 1 (a)(1)(vi)(A).	NO	
1	Condition 3 - Table 1 (a)(1)(vi)(B) The operational limitations of Condition 3–Table 1(a)(1)(iv).	Monitoring and record keeping in accordance with Condition 3 - Table 1 (a)(1)(vi)(B).	NO	
1	Condition 3 - Table 1 (a)(1)(vii) In addition to that required by Condition 3(b)(1)(ii) of this permit, the owner/operator shall conduct a daily visible emissions observation on passive flares in use Monday - Friday, excluding holidays and weather related closing, for at least ten (10) minutes.	Testing in accordance with Condition 3 - Table 1 (a)(1)(vii).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
1	Condition 3 - Table 1 (a)(1)(ix) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(c)(2) of this permit, the Company shall maintain records of the information monitored in Condition 3 – Table 1(a)(1)(vi).	Record keeping in accordance with Condition 3 - Table 1 (a)(1)(ix).	NO	
1	Condition 3 - Table 1 (a)(1)(x)(A) A notification to the Department within 24 hours after relocation of flares within or to any DSWA landfill sites. This notification can be made via email or fax which includes the following information:	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A).	YES	Separate reports submitted throughout operating period
1	Condition 3 - Table 1 (a)(1)(x)(A)(1) Which flare(s) is (are) being relocated.	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A)(1).	YES	Separate reports submitted throughout operating period
1	Condition 3 - Table 1 (a)(1)(x)(A)(2) The site of the relocated flare(s).	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A)(2).	YES	Separate reports submitted throughout operating period
1	Condition 3 - Table 1 (a)(1)(x)(A)(3) The reason for the flare(s) relocation.	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A)(3).	YES	Separate reports submitted throughout operating period
1	Condition 3 - Table 1 (a)(1)(x)(A)(4) The date and time the flare(s) was (were) relocated.	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A)(4).	YES	Separate reports submitted throughout operating period

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
1	Condition 3 - Table 1 (a)(1)(x)(A)(5) The intended period of time the flare(s) is(are) proposed for use at that location.	Reporting of passive flare relocation in accordance with Condition 3 - Table 1 (a)(1)(x)(A)(5).	YES	Separate reports submitted throughout operating period
1	Condition 3 - Table 1 (a)(1)(x)(B) The Company shall calculate/estimate the emissions from all passive flares used at the site based on actual hours of operation and include this information in the annual emissions inventory report.	Reporting of passive flare emissions in accordance with Condition 3 - Table 1 (a)(1)(x)(B).	YES	April 27, 2017
1	Condition 3 - Table 1 (a)(1)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance shall be based on monitoring, records keeping and reporting requirements of this section.	Record keeping in accordance with Condition 3 - Table 1 (a)(1)(xi).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(i) The flare shall be operated with no visible emissions as determined by Reference Method 22, except for periods not to exceed a total of five (5) minutes during any two (2) consecutive hours.	Monitoring of flare visible emissions in accordance with Condition 3 - Table 1 (b)(1)(i).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(A)(1) NOx: A rate of 0.025 pound per million BTU for each Low-NOx enclosed flare.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(A)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(A)(2) NOx: 11.95 tons per 12-month rolling period for each Low-NOx enclosed Flare, and a total of 23.9 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(A)(2).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(B)(1) CO: A rate of 0.06 pound per million BTU for each flare.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(B)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(B)(2) CO: 57.4 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(B)(2).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(C)(1) PM: A rate of 2.3 pounds per hour for each flare.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(C)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(C)(2) PM: 16 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(C)(2).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(D) NMOC: 0.61 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(D).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(E)(1) SOx: A rate of 19.7 pounds per hour for each flare.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(E)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(E)(2) SOx: 77 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(E)(2).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(F)(1) HCl: A rate of 0.28 pounds per hour for each flare.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(F)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ii)(F)(2) HCl: 1.11 tons per 12-month rolling period for both flares combined.	Monitoring of flare emissions in accordance with Condition 3 - Table 1 (b)(1)(ii)(F)(2).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(A) The flares shall be operated with a flame present at all times and shall be operated at all times when collected landfill gas is routed to the system.	Record keeping of flare operation in accordance with Condition 3 - Table 1 (b)(1)(iii)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(B) The flare flame detection device shall be in proper operation whenever the flare is in operation.	Record keeping of flame detection device operation in accordance with Condition 3 - Table 1 (b)(1)(iii)(B).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(C) The owner/operator shall adhere to the flare gas heat content specifications in 40 CFR 60, Subpart A, §60.18(c)(3)(ii) dated 7/1/05 and the flare exit velocity specifications in 40 CFR 60, Subpart A, §60.18(c)(4) dated 7/1/05.	Record keeping of flare gas heat content and exit velocity in accordance with Condition 3 - Table 1 (b)(1)(iii)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(D) Landfill gas flow shall be diverted to the flare system for combustion within one (1) hour of gas compression plant shutdown during normal operating hours and within four (4) hours outside of normal operating hours. Normal operating hours shall mean Monday through Friday, 0700 hours until 1500 hours, excluding holidays and weather-related landfill closings.	Record keeping of response time to shut downs in accordance with Condition 3 - Table 1 (b)(1)(iii)(D).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(E) The flares shall be operated according to the latest startup, shutdown, and malfunction plan (SSMP) during all periods of startup, shutdown, and malfunction.	Record keeping of flare operation in accordance with Condition 3 - Table 1 (b)(1)(iii)(E).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(F) All structural and mechanical components of the flare and gas collection and treatment system shall be maintained in proper operating condition.	Record keeping of flare and gas system maintenance in accordance with Condition 3 - Table 1 (b)(1)(iii)(F).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iii)(G) The flare shall have an NMOC destruction efficiency of at least 98%.	Record keeping of NMOC destruction efficiency in accordance with Condition 3 - Table 1 (b)(1)(iii)(G).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iv)(A) The flares shall be operated in conjunction with the gas collection system to control odors as a top priority.	Monitoring of flare operation to reduce odors in accordance with Condition 3 - Table 1 (b)(1)(iv)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iv)(B) The total amount of landfill gas burned through ZULE-A and ZULE-B shall be no more than 3,780 MMscf (million standard cubic foot) per 12-month rolling period.	Record keeping of the amount of landfill gas burned through ZULE-A and ZULE-B in accordance with Condition 3 - Table 1 (b)(1)(iv)(B).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iv)(C) The maximum flow to the each flare shall be no more than 4,500 scfm (standard cubic foot per minute).	Record keeping of flare flow in accordance with Condition 3 - Table 1 (b)(1)(iv)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(iv)(D) The flare shall be operated as per the manufacturer's recommendation. Flare operating parameters shall include but are not limited to flare flow rate, flame temperature and residence time.	Record keeping in accordance with Condition 3 - Table 1 (b)(1)(iv)(D).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(v) Compliance with the standards and limitations will be demonstrated by adherance to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping in accordance with Condition 3 - Table 1 (b)(1)(v).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(A) The owner/operator shall monitor the flare to ensure that it is operated and maintained in conformance with its design.	Monitoring flare operation in accordance with Condition 3 - Table 1 (b)(1)(vi)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(B) The owner/operator shall monitor the presence of a flare pilot flame by using a thermocouple or any other equivalent device to detect the presence of a flame.	Monitoring of flare pilot flame in accordance with Condition 3 - Table 1 (b)(1)(vi)(B).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(C) The owner/operator shall monitor the flare flame monitoring equipment shall be inspected monthly.	Record keeping of flame monitoring equipment inspection in accordance with Condition 3 - Table 1 (b)(1)(vi)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(D) The owner/operator shall monitor the flow rate of landfill gas to the flare each day.	Monitoring gas flow rate in accordance with Condition 3 - Table 1 (b)(1)(vi)(D).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(E) The owner/operator shall monitor the operational standards and limitations of Condition 3–Table 1(b)(1)(iii) & (iv).	Monitoring the operational standards and limitations in accordance with Condition 3 - Table 1 (b)(1)(vi)(E).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(F) The owner/operator shall monitor compliance with the opacity requirements of Condition 3-Table 1(b)(1)(i) shall be determined once per quarter using RM 22 while flares are in operation from 40 CFR 60, Appendix A, dated 7/1/05. If visual emissions are determined to be in excess of the limitation in Condition 3-Table 1(b)(1)(i), the Company shall take all means necessary to minimize emissions and to operate the flare without visible emissions.	Monitoring the opacity requirements in accordance with Condition 3 - Table 1 (b)(1)(vi)(F).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vi)(G) While in operation, a flow meter shall be used to continuosly monitor and record the gas flow rate to the flare. The owner/operator shall follow all applicable requirements for the landfill outlined by 40 CFR Part 60.756- Monitoring of operations and 40 CFR Part 60.18(c)- General control device requirements (for flares).	Monitoring of flow rates in the flares in accordance with Condition 3 - Table 1 (b)(1)(vi)(G).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vii)(A) The performance of the flow monitor shall be demonstrated at least once each year by passing the tests given in 40 CFR 60 Appendix B, Performance Specification 6 except for calibration drift.	Testing of flow monitor in accordance with Condition 3 - Table 1 (b)(1)(vii)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(vii)(B) The owner/operator shall notify the Department at least thirty (30) days prior to any flow monitor test to give the Department the opportunity to witness the test.	Testing of flow monitor in accordance with Condition 3 - Table 1 (b)(1)(vii)(B).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(vii)(C) DSWA may use GEM testing and lab sample analysis results to perform calculations referred by Condition 3-Table 1(b)(iii)(C) quarterly basis. The Company shall perform calculations once per calendar year as identified by federal regulation 40 CFR 60, Subpart A, §60.18(f)(3).	Testing in accordance with Condition 3 - Table 1 (b)(1)(vii)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(A) Periods of operation for each flare.	Record keeping of flare operation in accordance with Condition 3 - Table 1 (b)(1)(ix)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(B) Reason flare is not in operation.	Record keeping of reason for flare down time in accordance with Condition 3 - Table 1 (b)(1)(ix)(B).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(C) Daily, monthly and 12-month rolling usage of landfill gas to each flare.	Record keeping of landfill gas usage in accordance with Condition 3 - Table 1 (b)(1)(ix)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(D) RM 22 records.	Record keeping of visible emissions in accordance with Condition 3 - Table 1 (b)(1)(ix)(D).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(E) Inspection and maintenance records of flares including flame and pilot flame monitoring.	Record keeping of inspections and maintenance of flares in accordance with Condition 3 - Table 1 (b)(1)(ix)(E).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(F) The monthly and rolling twelve (12) month total emissions shall be calculated by using landfill gas flow rate to each flare, hours of flare operation , site specific data, stack test results and AP-42 factors as appropriate, and recorded each month in a log for each of the following pollutants: Nitrogen oxides; Carbon monoxide; Particulates Matter; Non-methane organic compounds; Sulfur oxides; and Hydrochloric acid.	Record keeping of emissions totals in accordance with Condition 3 - Table 1 (b)(1)(ix)(F).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(1) The Company shall keep records of the Data showing flame presence;	Record keeping of flame presence in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(1).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(2) The Company shall keep records of the Inspections of flare monitoring equipment;	Record keeping of inspections in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(2).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(3) The Company shall keep records of the Flare velocity and landfill gas BTU content data;	Record keeping of gas velocity and heat content in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(3).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(4) The Company shall keep records of the a statement of qualifications of personnel performing Method 22.	Record keeping of personnel qualifications in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(4).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(5) The Company shall keep records of the Calibration records for all flow meters;	Record keeping of flow meter calibration in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(5).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(6) The Company shall keep records of the Landfill gas test information, including test protocol, raw data and final report; and	Record keeping of gas testing information in accordance with Condition 3 - Table 1 (b)(1)(ix)(G)(6).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(ix)(G)(7) The Company shall keep records of All parts of the startup, shutdown and malfunction plan, including: The occurrence and duration of each startup, shutdown, or malfunction of operation; The occurrence and duration of each malfunction of the air pollution control and monitoring equipment; All required maintenance performed on the air pollution control and monitoring equipment; Actions taken during period of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the startup, shutdown, and malfunction plan; and All information necessary to demonstrate compliance with the startup, shutdown, and malfunction plan when actions are consistent with the plan.	Record keeping of SSMP occurrences in accordance with Condition 3 - Table 1 (b)(2)(ix)(G)(7).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(x)(A) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department semi-annual reports of all operational exceedances that contain the value and length of time for exceedance of parameters monitored under Condition 3– Table 1(b)(1)(vi).	Reporting of operational exceedances through semi-annual reports in accordance with Condition 3 - Table 1 (b)(1)(x)(A).	YES	Exceedances listed in Table 2, Operations Log shown in Attachment A
2 and 3	Condition 3 - Table 1 (b)(1)(x)(B) The owner/operator shall report actions within 2 working days, followed by a letter within 7 working days, following actions that are not consistent with the startup, shutdown, or malfunction plan.	Reporting actions inconsistent with SSMP in accordance with Condition 3 - Table 1 (b)(1)(x)(B).	YES	N/A
2 and 3	Condition 3 - Table 1 (b)(1)(xi)(A) In adition to that required by Condition 3(c)(3) of this permit, the owner/operator shall use RM22 of Appendix A 40 CFR Part 60 to determine compliance with the visible emissions provision of Condition 3 –Table 1(b)(1)(i).	Record keeping of visible emissions compliance in accordance with Condition 3 - Table 1 (b)(1)(xi)(A).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(xi)(B) In adition to that required by Condition 3(c)(3) of this permit, the owner/operator shall calculate the net heating value of the gas being combusted in the flare using the method specified in 40 CFR Part 60.18(f)(3).	Record keeping of gas net heating value in accordance with Condition 3 - Table 1 (b)(1)(xi)(B).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
2 and 3	Condition 3 - Table 1 (b)(1)(xi)(C) In adition to that required by Condition 3(c)(3) of this permit, the owner/operator shall demonstrate compliance with the emission limitations of Condition 3 – Table 1(b)(1)(ii) each month based on the amount of gas combusted, actual NMOC, H2S, and methane concentrations, approved emission factors and good engineering assumptions.	Record keeping of emissions in accordance with Condition 3 - Table 1 (b)(1)(xi)(C).	NO	
2 and 3	Condition 3 - Table 1 (b)(1)(xi)(D) In adition to that required by Condition 3(c)(3) of this permit, the owner/operator shall calculate emissions from the flares as identified by Condition 3-Table 1(b)(ix)(F) by the end of each month for the previous month.	Record keeping of emissions in accordance with Condition 3 - Table 1 (b)(1)(xi)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(A) Operate the collection system such that gas is collected from each area, cell, or group of cells in the landfill in which the solid waste has been in place for a period of: 5 years or more if active; or 2 years or more if closed or at final grade.	Record keeping of waste age and gas collection in accordance with Condition 3 - Table 1 (c)(1)(iii)(A).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(B) Operate the collection system to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment.	Record keeping of collection system operation in accordance with Condition 3 - Table 1 (c)(1)(iii)(B).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(iii)(C) Operate the system such that all collected gases are vented to the gas treatment plant that processes the collected gas for subsequent sale or use and/or to permitted landfill gas flares that are designed and operated in accordance with §60.18	Record keeping of gas system operation in accordance with Condition 3 - Table 1 (c)(1)(iii)(C).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(D) Operate the control or treatment system at all times when the collected gas is routed to the system.	Record keeping of gas system operation in accordance with Condition 3 - Table 1 (c)(1)(iii)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(E) In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour.	Record keeping of gas system operation in accordance with Condition 3 - Table 1 (c)(1)(iii)(E).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(F) The provisions of this permit apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices.	Record keeping of SSM events in accordance with Condition 3 - Table 1 (c)(1)(iii)(F).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(iii)(G) The owner/operator shall implement a program to monitor for cover integrity and implement cover repairs as per permit SW-06/01 dated 1/6/06 issued by the Solid and Hazardous Waste Management Branch, DNREC or as the permit is modified or renewed in future.	Monitoring of cover integrity in accordance with Condition 3 - Table 1 (c)(1)(iii)(G).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(H)(1) Operate the collection system with negative pressure at each wellhead except under condition the following conditions: A fire or increased well temperature; Use of geomembrane or synthetic cover, in which case the operator shall develop acceptable pressure limits in the design plan; or A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Department.	Record keeping of collection system pressure in accordance with Condition 3 - Table 1 (c)(1)(iii)(H)(1).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(iii)(H)(2) If a positive pressure exists, action shall be initiated by the Company to correct the exceedance within 5 calendar days, except for the three conditions allowed under paragraph H(1) above. If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards.	Record keeping of pressure exceedances in accordance with Condition 3 - Table 1 (c)(1)(iii)(H)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(I)(1) Operate each interior wellhead in the collection system with a landfill gas temperature less than 55C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The Company may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens. Approval of gas wellhead operating temperature increase will be evaluated case-by-case basis.	Monitoring of gas temperature, nitrogen level, and oxygen level in accordance with Condition 3 - Table 1 (c)(1)(iii)(I)(1).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(iii)(I)(2) If a well exceeds one of the operating parameters specified in Condition 3-Table 1 (c)(iii)(I)(1), action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance.	Record keeping of gas temperature, nitrogen level, or oxygen level exceedances in accordance with Condition 3 - Table 1 (c)(1)(iii)(I)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(I)(3) Any attempted corrective measure shall not cause exceedances of other operational or performance standards.	Record keeping of corrective measures in accordance with Condition 3 - Table 1 (c)(1)(iii)(I)(3).	NO	
4	Condition 3 - Table 1 (c)(1)(iii)(I)(4) If corrective actions are taken as specified in paragraph(B) above, the monitored exceedance is not a violation of the operational requirements in this section.	Record keeping of corrective measures in accordance with Condition 3 - Table 1 (c)(1)(iii)(I)(4).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(iii)(J) Operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.	Record keeping of surface emissions in accordance with Condition 3 - Table 1 (c)(1)(iii)(J).	NO	
4	Condition 3 - Table 1 (c)(1)(iv) All landfill gas monitoring shall be performed by trained personnel.	Record keeping of personnel training in accordance with Condition 3 - Table 1 (c)(1)(iv).	NO	
4	Condition 3 - Table 1 (c)(1)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping and monitoring in accordance with Condition 3 - Table 1 (c)(1)(v).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(vi)(A) The owner/operator shall measure gauge pressure in the gas collection header at each individual well, monthly.	Monitoring system pressure in accordance with Condition 3 - Table 1 (c)(1)(vi)(A).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(B) The owner/operator shall monitor each well for temperature and nitrogen or oxygen, monthly.	Monitoring system temperature and nitrogen or oxygen in accordance with Condition 3 - Table 1 (c)(1)(vi)(B).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(C) The owner/operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a serpentine pattern spaced 30 meters apart (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 60.755(d).	Monitoring surface methane emissions in accordance with Condition 3 - Table 1 (c)(1)(vi)(C).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(C)(1) Monitoring shall also be performed where visual observations, such as distressed vegetation and cracks or seeps in the cover, indicate elevated concentrations of landfill gas.	Monitoring surface emissions in accordance with Condition 3 - Table 1 (c)(1)(vi)(C)(1).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(C)(2) Areas with steep or otherwise dangerous areas may be excluded from the surface testing.	Monitoring surface emissions in accordance with Condition 3 - Table 1 (c)(1)(vi)(C)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(C)(3) All penetrations from the landfill.	Monitoring surface emissions in accordance with Condition 3 - Table 1 (c)(1)(vi)(C)(3).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(vi)(D) Determine the background concentration by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.	Monitoring surface emissions in accordance with Condition 3 - Table 1 (c)(1)(vi)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(E) Develop a surface monitoring plan for methane that includes: A topographical map with the monitoring route identified and spaced at 30 meter intervals; The rational for any site-specific deviations from the 30 meter intervals; and All penetrations from the landfill.	Creating surface monitoring plan in accordance with Condition 3 - Table 1 (c)(1)(vi)(E).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(F) Implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.	Monitoring cover integrity in accordance with Condition 3 - Table 1 (c)(1)(vi)(F).	NO	
4	Condition 3 - Table 1 (c)(1)(vi)(G) Monitor training records for all personnel performing landfill gas monitoring and update records as needed.	Monitoring training records in accordance with Condition 3 - Table 1 (c)(1)(vi)(G).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(A) Perform surface emission monitoring in accordance with section "individual source survey" of Method 21 of 40 CFR Part 60, Appendix A, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.	Monitoring surface emissions in accordance with Condition 3 - Table 1 (c)(1)(vii)(A).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(vii)(B) The portable analyzer shall meet the instrument specifications provided in section "apparatus" of Method 21 of 40 CFR Part 60, Appendix A, except that "methane" shall replace all references to VOC.	Record keeping of analyzer specifications in accordance with Condition 3 - Table 1 (c)(1)(vii)(B).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(C) The calibration gas shall be methane, diluted to a nominal concentration of 500 ppm in air.	Record keeping of calibration gas in accordance with Condition 3 - Table 1 (c)(1)(vii)(C).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(D) Follow "performance evaluation requirements" and "instrument evaluation procedures" of Method 21 of 40 CFR Part 60, Appendix A.	Record keeping of evaluations in accordance with Condition 3 - Table 1 (c)(1)(vii)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(E) The calibration procedures provided in Method 21 of Appendix A shall be followed immediately before commencing a surface monitoring survey.	Record keeping of calibration procedures in accordance with Condition 3 - Table 1 (c)(1)(vii)(E).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(F) The nitrogen level shall be determined using Method 3C of 40 CFR Part 60, Appendix A.	Monitoring nitrogen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(F).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(G) The oxygen level shall be determined by an oxygen meter using Method 3A of 40 CFR Part 60, Appendix A except that:	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(G)(1) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span.	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G)(1).	NO	

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Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(vii)(G)(2) A data recorder is not required.	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(G)(3) Only two calibration gases are required, a zero and a span, and ambient air may be used as the span.	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G)(3).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(G)(4) A calibration error check is not required.	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G)(4).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(G)(5) The allowable sample bias, zero drift, and calibration drift are plus/minus 10 percent.	Monitoring of oxygen level in accordance with Condition 3 - Table 1 (c)(1)(vii)(G)(5).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(H) The NMOC emission rate shall be calculated using the appropriate equation provided in 40 CFR Part 60.754(a).	Record keeping of NMOC calculations in accordance with Condition 3 - Table 1 (c)(1)(vii)(H).	NO	
4	Condition 3 - Table 1 (c)(1)(vii)(I) Each month, the owner or operator shall sample the landfill gas using Department approved test methods to determine methane and H2S content. A dräger tube (or equivalent) test can be accepted for monthly determination of H2S in landfill gas along with a quarterly test by ASTM D5504 or EPA method 15/16. The owner or operator shall take measure to complete a quarterly test, and provide time for a repeat test within that quarter if necessary.	Monitoring methane and H2S content in accordance with Condition 3 - Table 1 (c)(1)(vii)(I).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(vii)(J) Each quarter, the owner or operator shall sample the landfill gas using Department approved test methods to determine NMOC content. EPA Method 25c can be used as the Department approved test method.	Monitoring NMOC content in accordance with Condition 3 - Table 1 (c)(1)(vii)(J).	NO	
4	Condition 3 - Table 1 (c)(1)(viii) Training shall include but not be limited to such things as sampling methods, instrument calibration, instrument response time, instrument response factors, and calibration gases.	Record keeping of personnel training in accordance with Condition 3 - Table 1 (c)(1)(viii).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(A) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of thie permit, the Company shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.	Record keeping of landfill capacity data in accordance with Condition 3 - Table 1 (c)(1)(ix)(A).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(B) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of thie permit, the Company shall keep readily accessible records for the life of the control equipment of the data listed in the following as measured during the initial performance test or compliance determination.	Record keeping of gas system data in accordance with Condition 3 - Table 1 (c)(1)(ix)(B).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(ix)(B)(1) The maximum expected gas generation flow rate as calculated in §60.755(a)(1).	Record keeping of maximum calculated gas flow rate in accordance with Condition 3 - Table 1 (c)(1)(ix)(B)(1).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(B)(2) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR Part §60.759(a)(1).	Record keeping of gas extraction devices in accordance with Condition 3 - Table 1 (c)(1)(ix)(B)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(B)(3) The flare type (i.e., steam assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in §60.18; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame or the flare flame is absent.	Record keeping of flare type and data in accordance with Condition 3 - Table 1 (c)(1)(ix)(B)(3).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(C) Keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in Conditions 3 –Table 1(c)(1)(iii) & (iv) as well as up-to-date, readily accessible records for periods of during which the parameter boundaries established during the most recent performance test are exceeded.	Record keeping of operating parameters in accordance with Condition 3 - Table 1 (c)(1)(ix)(C).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(ix)(D) Keep up-to-date, readily accessible continuous records of the indication of flow to the control device or indication of bypass flow.	Record keeping of flow control in accordance with Condition 3 - Table 1 (c)(1)(ix)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(E) Records of subsequent tests or monitoring including monitoring of H2S concentration in landfill gas shall be maintained for a minimum of 5 years.	Record keeping of tests and monitoring in accordance with Condition 3 - Table 1 (c)(1)(ix)(E).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(F) Records of the control device vendor specifications shall be maintained until removal.	Record keeping of vendor specifications in accordance with Condition 3 - Table 1 (c)(1)(ix)(F).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(G) Keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and provide a unique identification location label for each collector.	Record keeping of plot map in accordance with Condition 3 - Table 1 (c)(1)(ix)(G).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(H) Keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors.	Record keeping of collector installation date and location in accordance with Condition 3 - Table 1 (c)(1)(ix)(H).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(I) Keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as well as any nonproductive areas excluded from collection.	Record keeping of asbestos-containing and nondegradable waste in accordance with Condition 3 - Table 1 (c)(1)(ix)(I).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(ix)(J) Keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards, the reading in the subsequent month whether or not the second reading is an exceedance, the location of each exceedance and any corrective actions taken on monitored exceedances.	Record keeping of collection and control system exceedances in accordance with Condition 3 - Table 1 (c)(1)(ix)(J).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(K) Record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports.	Record keeping of positive pressure in accordance with Condition 3 - Table 1 (c)(1)(ix)(K).	NO	
4	Condition 3 - Table 1 (c)(1)(ix)(L) The operational standards and limitations monitored in accordance with Conditions 3 - Table 1 (c)(1)(iii) & (iv).	Record keeping of the operational standards and limitations monitored in accordance with Conditions 3 - Table 1 (c)(1)(iii) & (iv). in accordance with Condition 3 - Table 1 (c)(1)(ix)(L).	NO	
4	Condition 3 - Table 1 (c)(1)(x)(A) An amended design capacity report when there is an increase in the design capacity of the landfill, whether the increase results from an increase in the area or depth of the landfill, a change in the operating procedures of the landfill, or any other means. The amended design capacity report shall be submitted within 90 days of the issuance of an amended construction or operating permit, or the placement of waste in additional land, or the change in operating procedures which will result in an increase in maximum design capacity, whichever occurs first.	Reporting of amended design capacity in accordance with Condition 3 - Table 1 (c)(1)(x)(A).	YES	N/A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(x)(B) The owner/operator shall submit to the Department compliance reports every 6 months (semi-annually) as specified in 40 CFR Parts 63.1980(a) and (b), and Condition 3-Table 1(c)(4)(x) including information on all deviations as defined in 40 CFR Part 63.1990 that occurred during the 6-month reporting period. The semi-annual reports are due by February 1 and August 1 of each calendar year.	Reporting of compliance in accordance with Condition 3 - Table 1 (c)(1)(x)(B).	YES	January 31 and July 28, 2017
4	Condition 3 - Table 1 (c)(1)(x)(C) In addition to the information outlined in MACT requirement of this section, the owner/operator shall submit to the Department semi-annual reports of the recorded information in (1) through (6) below:	Reporting in accordance with Condition 3 - Table 1 (c)(1)(x)(C).	YES	January 31 and July 28, 2017
4	Condition 3 - Table 1 (c)(1)(x)(C)(1) Value and length of time for exceedance of applicable parameters monitored under Condition 3-Table 1(c)(1)(vi), and (c)(2)(vi).	Reporting of value and length of exceedances in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(1).	YES	Attachment B, C and D
4	Condition 3 - Table 1 (c)(1)(x)(C)(2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow.	Reporting of gas bypass in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(2).	YES	Attachment A
4	Condition 3 - Table 1 (c)(1)(x)(C)(3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.	Reporting of control device down time in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(3).	YES	Attachment A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(x)(C)(4) All periods when the collection system was not operating in excess of 5 days.	Reporting of collection system down time in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(4).	YES	N/A
4	Condition 3 - Table 1 (c)(1)(x)(C)(5) The location of each exceedance of the 500 parts per million methane concentration and the concentration recorded at each location for which an exceedance was recorded in the previous quarter.	Reporting of surface monitoring exceedances in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(5).	YES	Attachment D
4	Condition 3 - Table 1 (c)(1)(x)(C)(6) The date of installation and the location of each well or collection system expansion added along with new plot maps that indicate the locations of all new equipment.	Reporting of well location and installation in accordance with Condition 3 - Table 1 (c)(1)(x)(C)(6).	YES	Attachment E
4	Condition 3 - Table 1 (c)(1)(x)(D) The owner/operator shall submit an NMOC emission rate report to the Department annually, except as provided for in paragraph (3) below. The Department may request such additional information as may be necessary to verify the reported NMOC emission rate.	Reporting of NMOC emission rate in accordance with Condition 3 - Table 1 (c)(1)(x)(D).	YES	April 27, 2017
4	Condition 3 - Table 1 (c)(1)(x)(D)(1) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in §60.754 (a) or (b), as applicable.	Reporting of NMOC emission rate in accordance with Condition 3 - Table 1 (c)(1)(x)(D)(1).	YES	N/A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(x)(D)(2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.	Reporting of NMOC emission rate in accordance with Condition 3 - Table 1 (c)(1)(x)(D)(2).	YES	N/A
4	Condition 3 - Table 1 (c)(1)(x)(D)(3) The Company subject to the requirements of this subpart is exempted from the requirements of paragraphs 1 and 2 of this section, after the installation of a collection and control system in compliance with Condition 3-Table 1(a), (c), (d) and (e), during such time as the collection and control system is in operation and in compliance with Condition 3 -Table 1(a), (c), (d), and (e).	Reporting of NMOC emission rate in accordance with Condition 3 - Table 1 (c)(1)(x)(D)(3).	YES	N/A
4	Condition 3 - Table 1 (c)(1)(x)(E) The owner/operator shall submit the quarterly H2S concentration in LFG analysis results identified by Condition 3 - Table 1 (c)(1)(vii)(I) by the end of the each quarter for the previous quarter.	Reporting in accordance with Condition 3 - Table 1 (c)(1)(x)(E)	YES	March 28 and July 14, 2017

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(xi)(A) For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with Condition 3– Table 1(c)(1)(iii)(B), the appropriate equation from 40 CFR Part 60.755(a)(1) shall be used. The k and Lo kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42) or other site specific values demonstrated to be appropriate and approved by the Department. If k has been determined as specified in 60.754(a)(4), the value of k determined from the test shall be used. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.	Record keeping of gas flow rate calculation in accordance with Condition 3 - Table 1 (c)(1)(xi)(A).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(B) If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under Condition 3–Table 1(c)(1)(iii)(I).	Record keeping of positive pressure corrective action in accordance with Condition 3 - Table 1 (c)(1)(xi)(B).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(xi)(C) If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measurement shall not cause exceedances of other operational or performance standards.	Record keeping of gas system expansion in accordance with Condition 3 - Table 1 (c)(1)(xi)(C).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(D) Installation of additional wells is not required during the first 180 days after gas collection system start-up.	Record keeping of new wells in accordance with Condition 3 - Table 1 (c)(1)(xi)(D).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(E) If a well exceeds one of the operating parameters of Condition 3–Table 1(c)(1)(iii)(I), action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measurement shall not cause exceedances of other operational or performance standards.	Record keeping of corrective action in accordance with Condition 3 - Table 1 (c)(1)(xi)(E).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(xi)(F) Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the following actions shall be taken. As long as the following specified actions are taken, the exceedance is not a violation of the operational requirements.	Record keeping of surface monitoring exceedances in accordance with Condition 3 Table 1 (c)(1)(xi)(F).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(F)(1) The location of each monitored exceedance shall be marked and the location recorded.	Record keeping of exceedance location in accordance with Condition 3 - Table 1 (c)(1)(xi)(F)(1).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(F)(2) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.	Record keeping of corrective actions in accordance with Condition 3 - Table 1 (c)(1)(xi)(F)(2).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(F)(3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in Condition 3 – Table 1(c)(1)(xi)(F)(5) shall be taken, and no further monitoring of that location is required until the action specified in Condition 3 – Table 1(c)(1)(xi)(F)(5) has been taken.	Record keeping of remonitoring results in accordance with Condition 3 - Table 1 (c)(1)(xi)(F)(3).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(1)(xi)(F)(4) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in Condition 3 – Table 1(c)(1)(xi)(F)(3) or (5) shall be taken.	Record keeping of remonitoring in accordance with Condition 3 - Table 1 (c)(1)(xi)(F)(4).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(F)(5) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Department for approval.	Record keeping of remonitoring results in accordance with Condition 3 - Table 1 (c)(1)(xi)(F)(5).	NO	
4	Condition 3 - Table 1 (c)(1)(xi)(G) Compliance with all standards and limitations of Condition 3 – Table 1(c)(1)(iii) and (iv) shall be based upon record keeping.	Record keeping of compliance in accordance with Condition 3 - Table 1 (c)(1)(xi)(G).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(2)(iv)(A) The wellhead valve(s) shall be closed.	Monitoring wellhead valves in accordance with Condition 3 - Table 1 (c)(2)(iv)(A).	NO	
4	Condition 3 - Table 1 (c)(2)(iv)(B) The remaining gas collection system shall be rebalanced and checked during the remainder of the current month and the following two months after valve closure to allow the collection system to adapt without the contribution of the decommissioned well(s).	Monitoring and record keeping of gas collection system rebalancing in accordance with Condition 3 - Table 1 (c)(2)(iv)(B).	NO	
4	Condition 3 - Table 1 (c)(2)(iv)(C) After DNREC review of data and upon written approval from the Department for final abandonment, remove wellhead(s), cut and cap the vacuum line and gas well casing a minimum of three (3) feet below ground, backfill with soil as appropriate, and repair cap. The initial approval for well decommissioning from the Division of Air Quality does not preclude any requirements by the Department's Solid and Hazardous Waste Management Branch (SHWMB).	Record keeping of gas well removal in accordance with Condition 3 - Table 1 (c)(2)(iv)(C).	NO	
4	Condition 3 - Table 1 (c)(2)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (c)(2)(v).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(2)(vi)(A) The owner/operator shall monitor the average weekly flow rate of landfill gas collected at the flare/gas station for three (3) months after the well(s) decommissioning and compare with the three (3) months prior to well(s) decommissioning to determine if gas collection has increased, decreased or remained constant as a result of the decommissioning of the extraction points.	Monitoring of collected flow rate in accordance with Condition 3 - Table 1 (c)(2)(vi)(A).	NO	
4	Condition 3 - Table 1 (c)(2)(vi)(B) The Company shall conduct monthly surface monitoring in the vicinity of the decommissioned well(s) for three (3) consecutive months after initial well decommissioning to determine if additional wells are needed to control fugitive gas emissions or if the decommissioned well(s) need to be returned to service.	Monitoring of surface emissions in accordance with Condition 3 - Table 1 (c)(2)(vi)(B).	NO	
4	Condition 3 - Table 1 (c)(2)(vii) That required by Condition 3(b)(1)(ii) of this permit.	Testing in accordance with Condition 3 - Table 1 (c)(2)(vii).	NO	
4	Condition 3 - Table 1 (c)(2)(ix) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the monitoring required by Condition 3– Table 1(c)(2)(vi).	Record keeping of monitored data in accordance with Condition 3 - Table 1 (c)(2)(ix).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(2)(x)(A) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall provide the Department with written notification at least 15 days prior to beginning well decommissioning that includes the following:	Reporting well decommissioning data in accordance with Condition 3 - Table 1 (c)(2)(x)(A).	YES	February 27, March 6, March 24, May 23, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(x)(A)(1) The reason for well decommissioning.	Reporting reason for decommissioning in accordance with Condition 3 - Table 1 (c)(2)(x)(A)(1).	YES	February 27, March 6, March 24, May 23, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(x)(A)(2) A plot map that clearly identifies all nearby active wells and the wells to be decommissioned.	Reporting of well location in accordance with Condition 3 - Table 1 (c)(2)(x)(A)(2).	YES	February 27, March 6, March 24, May 23, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(x)(A)(3) Estimated approximate radius of influence (ROI) of the well to be decommissioned and the ROIs of the nearby active wells or LFG collection trenches.	Reporting of radius of influence in accordance with Condition 3 - Table 1 (c)(2)(x)(A)(3).	YES	February 27, March 6, March 24, May 23, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(x)(A)(4) Documentation that demonstrates that the wells have been unproductive.	Reporting of documented unproductive wells in accordance with Condition 3 -Table 1 (c)(2)(x)(A)(4).	YES	February 27, March 6, March 24, May 23, and June 30, 2017

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Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(2)(x)(B) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall provide a summary report of the results and details of the plans to abandon the decommissioned well(s) to the Department for approval prior to formal abandonment.	Reporting of well abandonment plan in accordance with Condition 3 - Table 1 (c)(2)(x)(B).	YES	January 23, March 16, June 16, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(x)(C) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall provide a summary report of landfill gas flow rate and surface emissions monitoring outlined by Condition 3-Table 1(c)(2)(vi)(A)&(B).	Reporting of gas flow rate and emissions monitoring in accordance with Condition 3 - Table 1 (c)(2)(x)(C).	YES	January 23, March 16, June 16, and June 30, 2017
4	Condition 3 - Table 1 (c)(2)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance shall be demonstrated by record keeping and reporting.	Record keeping and reporting of compliance in accordance with Condition 3 - Table 1 (c)(2)(xi).	NO	
4	Condition 3 - Table 1 (c)(3)(iii)(A) The collection and control system may be capped or removed provided that all the following conditions are met:	Record keeping of collection systems capping or removal in accordance with Condition 3 - Table 1 (c)(3)(iii)(A).	NO	
4	Condition 3 - Table 1 (c)(3)(iii)(A)(1) The landfill shall be no longer accepting solid waste and be permanently closed;	Record keeping of accepted waste in accordance with Condition 3 - Table 1 (c)(3)(iii)(A)(1).	NO	
4	Condition 3 - Table 1 (c)(3)(iii)(A)(2) The collection and control system shall have been in a minimum of 15 years; and	Record keeping of collection system operation time in accordance with Condition 3 - Table 1 (c)(3)(iii)(A)(2).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(3)(iii)(A)(3) The calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.	Record keeping of NMOC gas produced in accordance with Condition 3 - Table 1 (c)(3)(iii)(A)(3).	NO	
4	Condition 3 - Table 1 (c)(3)(iii)(B) If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR Part 60.7(a)(4) provided that none of the conditions of this permit are violated.	Record keeping of waste acceptance in accordance with Condition 3 - Table 1 (c)(3)(iii)(B).	NO	
4	Condition 3 - Table 1 (c)(3)(iii)(C) Any closed landfill that has no monitored exceedances in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane readings of 500 parts per million or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.	Record keeping of monitored exceedances in accordance with Condition 3 - Table 1 (c)(3)(iii)(C).	NO	
4	Condition 3 - Table 1 (c)(3)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 -Table 1 (c)(3)(v).	NO	
4	Condition 3 - Table 1 (c)(3)(vi) The company shall monitor the operational standards of Condition 3–Table 1(c)(3)(iii).	Monitoring of operational standards in accordance with Condition 3 - Table 1 (c)(3)(vi).	NO	

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(3)(vii) In addition to that required by Condition 3(b)(1)(ii) of this permit, the owner/operator shall calculate the NMOC emission rate using the equation provided in 40 CFR Part 60.754(b).	Record keeping of NMOC emissions calculations in accordance with Condition 3 - Table 1 (c)(3)(vii).	NO	
4	Condition 3 - Table 1 (c)(3)(ix) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall keep records of the monitoring required by Condition 3–Table 1(c)(3)(vi).	Record keeping of monitored data in accordance with Condition 3 - Table 1 (c)(3)(ix).	NO	
4	Condition 3 - Table 1 (c)(3)(x)(A) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit a closure report to the Department within 30 days of waste acceptance cessation. The Department may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of Section 258.60 of 40 CFR Part 60.	Reporting of landfill closure in accordance with Condition 3 - Table 1 (c)(3)(x)(A).	YES	N/A
4	Condition 3 - Table 1 (c)(3)(x)(B) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit an equipment removal report to the Department 30 days prior to removal or cessation of of the control equipment that includes the following:	Reporting of equipment removal in accordance with Condition 3 - Table 1 (c)(3)(x)(B).	YES	N/A

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(3)(x)(B)(1) A copy of the closure report submitted in accordance with Condition 3–Table 1(c)(3)(x)(A);	Reporting of closure in accordance with Condition 3 - Table 1 (c)(3)(x)(B)(1).	YES	N/A
4	Condition 3 - Table 1 (c)(3)(x)(B)(2) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired, and	Reporting of initial performance test in accordance with Condition 3 - Table 1 (c)(3)(x)(B)(2).	YES	N/A
4	Condition 3 - Table 1 (c)(3)(x)(B)(3) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year.	Reporting of NMOC emission rates in accordance with Condition 3 - Table 1 (c)(3)(x)(B)(3).	YES	N/A
4	Condition 3 - Table 1 (c)(3)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance with the operational standards shall be based upon record keeping.	Record keeping of compliance with operational standards in accordance with Condition 3 - Table 1 (c)(3)(xi).	NO	
4	Condition 3 - Table 1 (c)(4)(iii) The owner/operator shall develop and implement a written startup, shutdown and malfunction plan (SSM) that describes, in detail, procedures for operating and maintaining the collection and control system and the continuous monitoring system during periods of SSM and a program of corrective action for malfunctioning process and air pollution control equipment according to the provisions of 40 CFR Part 63.6(e)(3).	Record keeping of SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(iii).	NO	

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(4)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (c)(4)(v).	NO	
4	Condition 3 - Table 1 (c)(4)(vi) In addition to the requirements of all monitoring conditions specified under Condition 3-Table 1(c), the Company shall monitor the time, date, and length of all SSM and any actions taken at such times.	Monitoring of SSM events in accordance with Condition 3 - Table 1 (c)(4)(vi).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(A) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall keep the written Startup Shutdown and Malfunction Plan (SSM Plan) on record to be made available for inspection upon request, for the life of the affected source.	Record keeping of SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(ix)(A).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(B) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall keep previous versions of the SSM Plan on record if the SSM Plan is revised, for a period of 5 years after each revision to the plan.	Record keeping of previous SSM Plans in accordance with Condition 3 - Table 1 (c)(4)(ix)(B).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(C) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the occurrence and duration of each SSM of operation, and of the air pollution control equipment.	Record keeping of each SSM event in accordance with Condition 3 - Table 1 (c)(4)(ix)(C).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(4)(ix)(D) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall record all maintenance performed on the air pollution control equipment.	Record keeping of equipment maintenance in accordance with Condition 3 - Table 1 (c)(4)(ix)(D).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(E) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall record actions taken during periods of SSM (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the SSM Plan.	Record keeping of actions taken during SSM periods in accordance with Condition 3 - Table 1 (c)(4)(ix)(E).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(F) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain all information necessary to demonstrate conformance with the affected source's SSM Plan when all actions taken during periods of SSM are consistent with the procedures specified in such plan.	Record keeping of conformance with SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(ix)(F).	NO	
4	Condition 3 - Table 1 (c)(4)(ix)(G) In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of the permit, the Company shall record each period during which a CMS is malfunctioning or inoperative.	Record keeping of CMS malfunctions in accordance with Condition 3 - Table 1 (c)(4)(ix)(G).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(4)(x)(A) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department the following reports: A SSM report shall be submitted semiannually.	Reporting of SSM compliance in accordance with Condition 3 - Table 1 (c)(4)(x)(A).	YES	January 31 and July 25, 2017
4	Condition 3 - Table 1 (c)(4)(x)(B) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department the following reports: If actions taken during a SSM are consistent with the procedures specified in the SSM Plan, the owner or operator shall state such information in the report.	Reporting of actions consistent with SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(x)(B).	YES	January 31 and July 25, 2017
4	Condition 3 - Table 1 (c)(4)(x)(C) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department the following reports: The SSM report shall consist of a letter, containing the name, title, and signature of the responsible official certifying to its accuracy.	Reporting of SSM report accuracy in accordance with Condition 3 - Table 1 (c)(4)(x)(C).	YES	January 31 and July 25, 2017

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(4)(x)(D) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department the following reports: SSM reports shall be delivered or postmarked by the 30th day following the end of each calendar half.	Reporting of SSM on time in accordance with Condition 3 - Table 1 (c)(4)(x)(D).	YES	January 31 and July 25, 2017
4	Condition 3 - Table 1 (c)(4)(x)(E) In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department the following reports: Anytime an action taken by an owner/operator during a SSM is not consistent with the procedures specified in the SSM plan, the owner/operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event.	Reporting of actions inconsistent with SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(x)(E).	YES	January 31 and July 25, 2017
4	Condition 3 - Table 1 (c)(4)(x)(E)(1) The immediate report shall consist of a telephone call or facsimile transmission within 2 working days after commencing actions.	Reporting of actions inconsistent with SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(x)(E)(1).	YES	N/A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
4	Condition 3 - Table 1 (c)(4)(x)(E)(2) The letter shall contain the name, title and signature of the responsible official certifying its accuracy, explaining the circumstances of the event, the reasons for not following the SSM plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.	Reporting of actions inconsistent with SSM Plan in accordance with Condition 3 - Table 1 (c)(4)(x)(E)(2).	YES	N/A
4	Condition 3 - Table 1 (c)(4)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance with the operational standards shall be based upon record keeping and reporting requirements outlined above.	Record keeping and reporting of compliance in accordance with Condition 3 - Table 1 (c)(4)(xi).	NO	
5	Condition 3 - Table 1 (d)(1)(i) The gas plant shall not be a source of emissions.	Record keeping and monitoring of gas plant in accordance with Condition 3 - Table 1 (d)(1)(i).	NO	
5	Condition 3 - Table 1 (d)(1)(iv)(A)(1) Route all the collected gas to: the gas compression plant that processes the collected gas for subsequent sale or , use; or	Record keeping of gas routing in accordance with Condition 3 - Table 1 (d)(1)(iv)(A)(1).	NO	
5	Condition 3 - Table 1 (d)(1)(iv)(A)(2) Permitted flare(s) designed and operated in accordance with §60.18(c).	Record keeping of gas routing in accordance with Condition 3 - Table 1 (d)(1)(iv)(A)(2).	NO	
5	Condition 3 - Table 1 (d)(1)(iv)(B)(1) The gas plant shall: be operated at all times when the collected gas is routed to the system.	Record keeping of gas plant operation in accordance with Condition 3 - Table 1 (d)(1)(iv)(B)(1).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
5	Condition 3 - Table 1 (d)(1)(iv)(B)(2) be maintained and operated in a manner consistent with the specifications in the operation manual. Any changes to the manuals shall be submitted to the Department.	Record keeping of operation and maintenance in accordance with Condition 3 - Table 1 (d)(1)(iv)(B)(2).	NO	
5	Condition 3 - Table 1 (d)(1)(iv)(C) DSWA shall upgrade the landfill gas collection system, including gas lines, process skid, and compressor so it is capable of processing and transmitting processed landfill gas at the rate of 9,000 scfm. When the landfill gas flow rate exceeds a daily average of 8,000 scfm for two (2) consecutive months, DSWA shall upgrade the system so it is capable of processing and transmitting processed landfill gas at the rate of 12,000 scfm. In any event, all landfill gas collected at the landfill either shall be processed by the gas compressor system or burned at a flare or flares.	Record keeping of gas system upgrades in accordance with Condition 3 - Table 1 (d)(1)(iv)(C).	NO	
5	Condition 3 - Table 1 (d)(1)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (d)(1)(v).	NO	
5	Condition 3 - Table 1 (d)(1)(vi) The owner/operator shall monitor operational limitations of this section.	Monitoring of operational limitations in accordance with Condition 3 - Table 1 (d)(1)(vi).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
5	Condition 3 - Table 1 (d)(1)(ix)(A) The owner/operator shall maintain all records specified under Condition 3-Table 1(d)(1)(vi) including the following information:	Record keeping in accordance with Condition 3 - Table 1 (d)(1)(ix)(A).	NO	
5	Condition 3 - Table 1 (d)(1)(ix)(A)(1) The date and time the gas plant was shut down;	Record keeping of gas plant shut downs in accordance with Condition 3 - Table 1 (d)(1)(ix)(A)(1).	NO	
5	Condition 3 - Table 1 (d)(1)(ix)(A)(2) The date and time the gas flow was restored to the plant; and	Record keeping of gas flow to gas plant in accordance with Condition 3 - Table 1 (d)(1)(ix)(A)(2).	NO	
5	Condition 3 - Table 1 (d)(1)(ix)(A)(3) The date and time the flare was fired.	Record keeping of flare use in accordance with Condition 3 - Table 1 (d)(1)(ix)(A)(3).	NO	
5	Condition 3 - Table 1 (d)(1)(ix)(B) Records of the control device vendor specifications shall be maintained until removal.	Record keeping of vendor specifications in accordance with Condition 3 - Table 1 (d)(1)(ix)(B).	NO	
5	Condition 3 - Table 1 (d)(1)(ix)(C) The daily exit gas flow rate from gas plant as specified in Condition 3-Table 1 (d)(1)(iv)(A).	Record keeping of exit gas flow rate in accordance with Condition 3 - Table 1 (d)(1)(ix)(C).	NO	
5	Condition 3 - Table 1 (d)(1)(x)(A) Any changes to the operational manual shall be submitted to the Department within one (1) month.	Reporting of changes to the operational manual in accordance with Condition 3 - Table 1 (d)(1)(x)(A).	YES	N/A
5	Condition 3 - Table 1 (d)(1)(x)(B) In addition to Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall submit to the Department annual reports of the following information:	Reporting in accordance with Condition 3 - Table 1 (d)(1)(x)(B).	YES	Attachment A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
5	Condition 3 - Table 1 (d)(1)(x)(B)(1) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR Part 60.756.	Reporting of gas routing in accordance with Condition 3 - Table 1 (d)(1)(x)(B)(1).	YES	Attachment A
5	Condition 3 - Table 1 (d)(1)(x)(B)(2) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour during normal operating hour and 4 hours outside normal operating hour, and length of time the control device was not operating.	Reporting of control device down time in accordance with Condition 3 - Table 1 (d)(1)(x)(B)(2).	YES	Attachment A
5	Condition 3 - Table 1 (d)(1)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance will be determined based on records keeping and reporting requirements of this section.	Record keeping and reporting in accordance with Condition 3 - Table 1 (d)(1)(xi).	NO	
6	Condition 3 - Table 1 (e)(1)(i) The generator shall be operated in conformance with the generator manufacturer's instructions, such as following maintenance and operating requirements to help minimize emissions.	Record keeping of operations in accordance with Condition 3 - Table 1 (e)(1)(i).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(A) The emergency generator may be operated for an unlimited number of hours during an emergency as described in Condition 3–Table 1(e)(1)(iii)(C).	Record keeping of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(A).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(iii)(B) The emergency generator may operate for an unlimited number of hours during testing or for maintenance purposes, pursuant to the definition of an emergency generator as defined in the 7 DE Admin Code 1144, except as restricted by Condition 3–Table 1(e)(1)(iii)(D).	Record keeping of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(B).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(C) The emergency generator may only operate during an emergency as defined below:	Record keeping of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(C).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(C)(1) An electrical power outage due to: a failure of the electrical grid; on-site disaster; local equipment failure; or public service emergencies such as flood, fire, natural disaster, or severe weather conditions (e.g. hurricane, tornado, blizzard, etc.); or	Record keeping of hours of emergency operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(C)(1).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(C)(2) When there is a deviation of voltage or frequency from the electrical provider to the premises of three percent (3%) or greater above, or five Percent (5%) or greater below, standard voltage or frequency.	Record keeping of hours of emergency operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(C)(2).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(D) No emergency generator shall be used during testing or for maintenance purposes before 5 p.m. on a day which has a Ground Level Ozone Pollution Forecast or Particle Pollution Forecast of "Code Red" or "Code Orange" as announced by the Department.	Record keeping of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(D).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(iii)(E) Despite Condition 3–Table 1(e)(1)(iii)(D), an emergency generator may be tested on any day that such testing is required to meet National Fire Protection Association (NFPA) standards.	Record keeping of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(E).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(F) The emergency generator shall only combust diesel fuel or biodiesel blend having a sulfur content equal to or less than 0.05% by weight.	Record keeping of generator fuel in accordance with Condition 3 - Table 1 (e)(1)(iii)(F).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(G) The emergency generator shall be equipped with a properly functioning non-resettable hour metering device.	Record keeping of generator equipment in accordance with Condition 3 - Table 1 (e)(1)(iii)(G).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(H) The emergency generator shall not be operated in conjunction with a voluntary demand reduction program or any other interruptible power supply arrangement with a utility, other market participant, or system operator (e.g. Delmarva Power, Delaware Electric Cooperative, PJM, etc.).	Record keeping of reasons for operation in accordance with Condition 3 - Table 1 (e)(1)(iii)(H).	NO	
6	Condition 3 - Table 1 (e)(1)(iii)(I) The emergency generator shall not be transferred off-site without first notifying the Department. Whoever becomes the new owner or operator of this generator within the State of Delaware shall apply for a construction permit.	Record keeping of generator location in accordance with Condition 3 - Table 1 (e)(1)(iii)(I).	NO	

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COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(iv) The emergency generator shall be serviced annually by a manufacturer's representative or by personnel trained to perform maintenance according to the manufacturer's recommendations.	Record keeping of maintenance and personnel training/qualifications in accordance with Condition 3 - Table 1 (e)(1)(iv).	NO	
6	Condition 3 - Table 1 (e)(1)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping in accordance with Condition 3 - Table 1 (e)(1)(v).	NO	
6	Condition 3 - Table 1 (e)(1)(vi)(A) The Company shall monitor, for each operating period: The type of fuel used to fire this Emission Unit; The monthly amount of fuel combusted; The sulfur content of the fuel oil for each shipment; and the date, time, duration, and reason for each startup.	Monitoring fuel and fuel usage in accordance with Condition 3 - Table 1 (e)(1)(vi)(A).	NO	
6	Condition 3 - Table 1 (e)(1)(vi)(B) The hours and minutes of operation.	Monitoring of hours of operation in accordance with Condition 3 - Table 1 (e)(1)(vi)(B).	NO	
6	Condition 3 - Table 1 (e)(1)(vii) That required by Condition 3(b)(1)(ii) of this permit.	Testing in accordance with Condition 3 - Table 1 (e)(1)(vii).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(A) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: the monitoring required in Condition 3 – Table 1(e)(1)(vi).	Record keeping of monitoring data in accordance with Condition 3 - Table 1 (e)(1)(ix)(A).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(ix)(B) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: for each shipment of fuel, shipping receipt and fuel supplier certifications of fuel sulfur content that state: The type of fuel delivered; and The percentage of sulfur in the fuel and the method used to determine the sulfur content.	Record keeping of fuel information in accordance with Condition 3 - Table 1 (e)(1)(ix)(B).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(C) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: As an alternative to Condition 3–Table 1(e)(1)(ix)(B), the owner may have a the fuel in the generator's fuel tank certified by a third party laboratory, after each shipment of liquid fuel. This certification shall identify: The type of fuel delivered; and The percentage of sulfur in the fuel and the method used to determine the sulfur content.	Record keeping of fuel information in accordance with Condition 3 - Table 1 (e)(1)(ix)(C).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(D) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: A copy of the initial notification as required by 7 DE Admin Code 1144.	Record keeping of initial notification in accordance with Condition 3 - Table 1 (e)(1)(ix)(D).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(ix)(E) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: A copy of the manufacturer's maintenance and operational recommendations.	Record keeping of maintenance and operational manual in accordance with Condition 3 - Table 1 (e)(1)(ix)(E).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(F) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: Monthly, the hours of operation on a monthly and cumulative twelve (12) month basis.	Record keeping of hours of operation in accordance with Condition 3 -Table 1 (e)(1)(ix)(F).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(G) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: Monthly, the total fuel usage on a monthly and cumulative twelve (12) month basis.	Record keeping of fuel usage in accordance with Condition 3 - Table 1 (e)(1)(ix)(G).	NO	
6	Condition 3 - Table 1 (e)(1)(ix)(H) In addition to the requirements of Condition 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the following information: A copy of the annual service performed in accordance with Condition 3–Table 1(e)(1)(iv)(A).	Record keeping of service records in accordance with Condition 3 - Table 1 (e)(1)(ix)(H).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
6	Condition 3 - Table 1 (e)(1)(x)(A) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, if the emergency generator is to be reclassified from an emergency generator to a distributed generator, the owner or operator shall submit a letter stating that the generator is to be reclassified. Reclassification shall not occur without written permission from the Department.	Reporting of generator reclassification in accordance with Condition 3 - Table 1 (e)(1)(x)(A).	YES	N/A
6	Condition 3 - Table 1 (e)(1)(x)(B) The Company shall calculate the emissions from emergency generator and include this information to yearly emissions inventory report.	Reporting of emissions in accordance with Condition 3 - Table 1 (e)(1)(x)(B).	YES	April 27, 2017
6	Condition 3 - Table 1 (e)(1)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance with the operational standards shall be based upon record keeping and reporting requirements outlined above.	Record keeping and reporting of compliance in accordance with Condition 3 - Table 1 (e)(1)(xi).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(ii) The facility's rolling 12-month emission limitations are based on two low-NOx enclosed flares and all permitted passive flares as shown below: NOx=23.9 tons, CO=57.4 tons, PM=16 tons, NMOC=0.61 tons, Sox=77 tons, HCl=1.11 tons.	Monitoring emissions limitations in accordance with Condition 3 - Table 1 (f)(1)(ii).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(iv)(A) As outlined by the unit-specific operational limitations by this permit.	Monitoring of operational limitations in accordance with Condition 3 - Table 1 (f)(1)(iv)(A).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(1)(iv)(B) Only permitted temporary grinders may be used on site and all emissions from the temporary grinders shall be included in the facility wide total emiisions.	Reporting of emissions in accordance with Condition 3 - Table 1 (f)(1)(iv)(B).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(iv)(C) Only permitted temporary crushers may be used on site and all emissions from the temporary crushers shall be included in the facility wide total emiisions.	Reporting of emissions in accordance with Condition 3 - Table 1 (f)(1)(iv)(C).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (f)(1)(v).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(vi)(A) The owner/operator shall monitor the following: monthly and 12-month emissions of NOx, CO, PM, NMOCs, SOx, and HCl from the facility.	Monitoring of emissions in accordance with Condition 3 - Table 1 (f)(1)(vi)(A).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(vi)(B) The owner/operator shall monitor unit-specific visible emissions as outlined by this permit.	Monitoring of visible emissions in accordance with Condition 3 - Table 1 (f)(1)(vi)(B).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(vi)(C) The owner/operator shall monitor the hours of operation of permitted temporary stationary equipment.	Monitoring of hours of operation in accordance with Condition 3 - Table 1 (f)(1)(vi)(C).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(vii) That required by Condition 3(b)(1)(ii) of this permit.	Testing in accordance with Condition 3 - Table 1 (f)(1)(vii).	NO	

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111-R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(1)(ix) That required by Conditions 3(b)(1)(ii) and 3(b)(2) and Condition 3-Table 1(f)(1)(vi) of this permit.	Record keeping in accordance with Condition 3 - Table 1 (f)(1)(ix).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(x) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall calculate the rolling 12-month emissions from passive flares based on actual hours of operations and best engineering assumptions. The owner/operator shall include the passive flare emissions to yearly emissions inventory report.	Reporting of emissions in accordance with Condition 3 - Table 1 (f)(1)(x).	YES	April 27, 2017
Facility Wide	Condition 3 - Table 1 (f)(1)(xi)(A) Compliance with the emission limitations identified by the unit-specific emissions shall be demonstrated each month based on the amount of gas combusted, actual NMOC, actual H2S concentrations, actual methane content in landfill gas, approved emission factors and good engineering assumptions.	Record keeping of compliance with emission limitations in accordance with Condition 3 - Table 1 (f)(1)(xi)(A).	NO	
Facility Wide	Condition 3 - Table 1 (f)(1)(xi)(B) Any noncompliance with the restrictions of Condition 3–Table 1(f)(xi)(A) shall be evaluated in accordance with the requirements of 7 DE Admin Code 1125, Requirements for Preconstruction Review. Any emission exceedances which trigger the requirements of 7 DE Admin Code 1125 shall subject the facility to full review under this regulation as though construction had not yet commenced at the facility.	Record keeping of noncompliance in accordance with Condition 3 - Table 1 (f)(1)(xi)(B).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(2)(i) Odor: The owner/operator shall not cause or allow the emission of odorous air contaminants such as to cause a condition of air pollution.	Record keeping of emissions of odorous air contaminants in accordance with Condition 3 Table 1 (f)(2)(i).	NO	
Facility Wide	Condition 3 - Table 1 (f)(2)(iv) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (f)(2)(iv).	NO	
Facility Wide	Condition 3 - Table 1 (f)(2)(v)(A) Conduct daily odor survey at the perimeter of the facility on days the facility is operational. The daily surveys shall be conducted 6 days a week (Monday through Saturday). The owner or operator shall resume off day monitoring if there are any verified odor complaints on any off day in any subsequent quarter. If a landfill gas odor sufficient to cause or create a condition of air pollution is detected, the owner/operator shall take immediate action to correct landfill gas odor problem. The following information shall be recorded and maintained in written or electronic log. Any written log shall be initialed: Start and end time of survey, presence or absence of odor, wind direction, ambient air temperature, and location monitored. In the event when odor is detected along the perimeter exterior of the landfill, the odor survey log shall include the following additional information: Humidity content of ambient air, average wind speed, actions taken in response to odor found.	Monitoring of odors in accordance with Condition 3 - Table 1 (f)(2)(v)(A).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(2)(v)(B) The owner/operator shall conduct perimeter H2S survey (measurement) if H2S concentration in LFG exceeds 450 ppm in two consecutive quarters by laboratory analysis (ASTM). The perimeter H2S measurements shall be conducted within seventy two (72) hours upon receiving the laboratory results and maintain this information for the Department's reviews.	Monitoring of odors in accordance with Condition 3 - Table 1 (f)(2)(v)(B)	NO	
Facility Wide	Condition 3 - Table 1 (f)(2)(vii) That required by Condition 3(b)(1)(ii) of this permit.	Testing in accordance with Condition 3 - Table 1 (f)(2)(vii).	NO	
Facility Wide	Condition 3 - Table 1 (f)(2)(ix) In addition to that required by Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the owner/operator shall maintain records of the following: 1. Presence or absence of odor; 2. Wind direction and ambient air temperature; 3. Location monitored; 4. Actions taken in response to odors found. For H2S monitoring the owner/operator shall maintain records of the following: 1. Method used for perimeter monitoring (survey); 2. Monitoring results; 3.Monitoring location.	Record keeping of odor logs in accordance with Condition 3 - Table 1 (f)(2)(ix).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(2)(x)(A) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall comply with the following: Notify the Department immediately if daily or other odor surveys detect odors beyond the landfill perimeter. The owner/operator shall submit an odor survey sumary log by the end of each calendar month for the previous month. The odor survey summary log shall include all information outlined by Condition 3-Table 1(f)(2)(v)(A).	Reporting of odors in accordance with Condition 3 - Table 1 (f)(2)(x)(A).	YES	Submitted monthly throughout the year
Facility Wide	Condition 3 - Table 1 (f)(2)(x)(B) In addition to that required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the owner/operator shall comly with the following: Research and explore various H2S generation reduction strategies and control options and implement these strategies as necessary so that the H2S concentration in the landfill gas remains consistently low and meets the Ambient Air Quality Standard (AAQS) outlined by 7 DE Admin Code 1103, Section 9 for this pollutant. The facility must submit an annual report to the Department by the end of March of each calendar year for the previous year summarizing its findings including which strategies and control options have been implemented for H2S generation reduction.	Compliance with researching H2S reduction methods in accordance with Condition 3 - Table 1 (f)(2)(x)(B).	YES	March 30, 2017

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(2)(xi) In addition to that required by Condition 3(c)(3) of this permit, compliance is demonstrated if the owner/operator has no knowledge to the contrary and has no prior history of exceedances.	Compliance with Condition 3(c)(3) in accordance with Condition 3 - Table 1 (f)(2)(xi).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(iii)(A) All structural and mechanical components of the equipment covered by this permit shall be maintained in proper operating condition and such equipment shall be operated at all times in a manner consistent with good air pollution control practice.	Record keeping of equipment maintenance in accordance with Condition 3 - Table 1 (f)(3)(iii)(A).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(iii)(B) No person shall cause or allow land clearing, land grading (including grading for roads), excavation, or use of non-paved roads on private property unless methods, such as the application of water or the use of other techniques approved by the Department, are employed to control dust emission.	Record keeping of dust control actions in accordance with Condition 3 - Table 1 (f)(3)(iii)(B).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(iii)(C) No person shall cause or allow visible particulate emissions of any material being transported by a motor vehicle.	Record keeping of visible particulate emissions in accordance with Condition 3 - Table 1 (f)(3)(iii)(C).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(iii)(D) No person shall cause or allow stockpiling or other storage of material or transport to or from a storage facility in such a manner as may cause a condition of air pollution.	Record keeping of stockpiling practices in accordance with Condition 3 - Table 1 (f)(3)(iii)(D).	NO	

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(3)(v) Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements.	Record keeping of compliance in accordance with Condition 3 - Table 1 (f)(3)(v).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(vi)(A) Each month, the owner/operator shall monitor the operational limitations specified under Condition 3–Table 1(f)(3)(iii). The Company monitor all of the maintenance performed on equipment covered by this permit, and update records as needed.	Monitoring of operational limitations in accordance with Condition 3 - Table 1 (f)(3)(vi)(A).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(vi)(B) Each day, the Company shall monitor the methods used to store and transport material and the methods used for control of fugitive dust from loading, unloading, clearing, grading, and excavation.	Monitoring of storage, transport, and dust control methods in accordance with Condition 3 - Table 1 (f)(3)(vi)(B).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(vii) That required by Condition 3(b)(1)(ii) of this permit.	Testing in accordance with Condition 3 - Table 1 (f)(3)(vii).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(ix) In addition to that required by Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain records of the monitoring performed in Condition 3–Table 1(f)(3)(vi).	Record keeping of monitoring data in accordance with Condition 3 - Table 1 (f)(3)(ix).	NO	
Facility Wide	Condition 3 - Table 1(f)(3)(x) That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit.	Compliance with Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit in accordance with Condition 3 - Table 1(f)(3)(x).	YES	N/A

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TABLE 1 - Report of Any Required Monitoring

COLUMN A	COLUMN B	COLUMN C	COLUMN D	
Emission Unit/Point	**Applicable Requirement Emission Limitation, Standard, Work Practice Standard or Other Requirement for which monitoring is used to assure compliance**	**Monitoring**	**Separate Monitoring Report Required?**	**If Yes, Date of Separate Report Submittal or Attachment ID**
Facility Wide	Condition 3 - Table 1 (f)(3)(xi)(A) In addition to that required by Condition 3(c)(3)of this permit, compliance wit the operational standards shall be demonstrated by the following: Compliance with the Condition 3–Table 1(f)(3)(iii)(A) shall be demonstrated by adherence to good engineering operations and work practices, and based upon record keeping for the proper operation and maintenance of the equipment covered by this permit.	Record keeping of compliance with operational standards in accordance with Condition 3 - Table 1 (f)(3)(xi)(A).	NO	
Facility Wide	Condition 3 - Table 1 (f)(3)(xi)(B) In addition to that required by Condition 3(c)(3)of this permit, compliance wit the operational standards shall be demonstrated by the following: Compliance with the Condition 3 – Table 1(f)(3)(iii)(B), (C), and (D) shall be demonstrated by record keeping.	Record keeping of compliance with operational standards in accordance with Condition 3 - Table 1 (f)(3)(xi)(B).	NO	

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(iii)(H)(1)	4	Positive pressure detected at wellhead.
4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 00/00/0000 Ending: 00/00/0000	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):
5. Probable Cause of Deviation	**6. Corrective Action**	
See Attachment B for additional information.		

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☐ YES ☑ NO

7.2 Was this Deviation reported previously? ☐ YES ☑ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 00/00/0000

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(iii)(H)(2)	4	Corrective action for pressure exceedance at well CILFG062R was not recorded on or before the 5th day and negative pressure was not achieved on or before the 15th day.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 05/01/2017 Ending: 05/24/2017	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min): 24:00

5. Probable Cause of Deviation	6. Corrective Action
Technician error. The well was originally read on 5/01/2017 showing a pressure exceedance, but the reading was miscategorized as a well in decommissioning and the 5-day and 15-day requirements were missed. The well was read again on 5/24/2017 and passed.	The well was read and exceedance corrected on the 23rd day as soon as the error was noticed.

7. Deviation Reporting			
7.1 Did your Permit require that this Deviation be reported previously?	☐ YES	☑ NO	
7.2 Was this Deviation reported previously?	☐ YES	☑ NO	☐ NOT APPLICABLE
7.2(a) If YES, provide the date the written report was submitted: 00/00/0000			

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(iii)(I)(1)	4	Oxygen level greater than 5% detected at wellhead.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 00/00/0000 Ending: 00/00/0000	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
See Attachment C for additional information.	

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☐ YES ☑ NO

7.2 Was this Deviation reported previously? ☐ YES ☑ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 00/00/0000

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Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(iii)(I)(1)	4	Temperature greater than 131°F detected at wellhead.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 00/00/0000 Ending: 00/00/0000	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
See Attachment C for additional information.	

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☐ YES ☑ NO

7.2 Was this Deviation reported previously? ☐ YES ☑ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 00/00/0000

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(iii)(J)	4	Methane surface emissions detected greater than 500 ppm.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 00/00/0000 Ending: 00/00/0000	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
See Attachment D for additional information.	

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☐ YES ☑ NO

7.2 Was this Deviation reported previously? ☐ YES ☑ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 00/00/0000

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (c)(1)(ix)(D)	4	Inaccurate flow measurements to the flare.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 01/01/2017 Ending: 02/07/2017	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
Irregular flow patterns in flare inlet pipe resulting in unreliable flow measurements.	Installed a flow conditioning device in the pipeline upstream of the flow instrument, as recommended by an Engineer, to create a uniform flow pattern for reliable flow measurement.

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☑ YES ☐ NO

7.2 Was this Deviation reported previously? ☑ YES ☐ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 01/30/2017

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (d)(1)(x)(B)(2)	5	Collection system down time exceeded 1 hour during operating hours.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 05/17/2017 Ending: 05/17/2017	4.2 Time (hr:min) Start: 08:06 End: 09:35	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
Power failure - no power being delivered to facility.	The gas collection system was brought back into operation when power was restored to the facility. During the power failure all valves were closed to prevent the venting of landfill gas to the atmosphere.

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☐ YES ☑ NO

7.2 Was this Deviation reported previously? ☐ YES ☑ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 00/00/0000

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (d)(1)(x)(B)(2)	5	Collection system down time exceeded 4 hours outside of operating hours.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 06/13/2017 Ending: 06/13/2017	4.2 Time (hr:min) Start: 16:48 End: 21:33	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
Scheduled power outage - Delmarva Power performing repairs to transformer.	Delmarva Power scheduled repairs to the transformer station that supplies the facility. The gas collection system was brought back into operation when power was restored to the facility. During the power outage all valves were closed to prevent the venting of landfill gas to the atmosphere.

7. Deviation Reporting			
7.1 Did your Permit require that this Deviation be reported previously?	☐ YES	☑ NO	
7.2 Was this Deviation reported previously?	☐ YES	☑ NO	☐ NOT APPLICABLE
7.2(a) If YES, provide the date the written report was submitted: 00/00/0000			

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** AQM-003/00111 - R 2 R 2 **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 2 - Identification of Deviations

1. Permit Term or Condition for which there is a deviation	2. Emission Unit Identification	3. Deviation Description
Condition 3 - Table 1 (f)(1)(vi)(A)	4	Inaccurate flow records to the flare.

4. Deviation Duration		
4.1 Date (mm/dd/yyyy) Beginning: 01/01/2017 Ending: 02/07/2017	4.2 Time (hr:min) Start: 00:00 End: 00:00	4.3 Duration (hr:min):

5. Probable Cause of Deviation	6. Corrective Action
Inaccurate flow measurements.	Data correction algorithm created by alternate measurements and comparrisons.

7. Deviation Reporting

7.1 Did your Permit require that this Deviation be reported previously? ☑ YES ☐ NO

7.2 Was this Deviation reported previously? ☑ YES ☐ NO ☐ NOT APPLICABLE

7.2(a) If YES, provide the date the written report was submitted: 01/30/2017

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** **AQM-003/00111-R2 R2** **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 3 – Additional Information

Emission Unit/Point	Deviation	Additional Information
N/A		

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section Semi-Annual Report (continued)	AQM-1001DD

Facility Name: CIL **Operating Permit Number:** **AQM-003/00111-R2 R2** **Reporting Period:** 01/01/2017 **TO** 06/30/2017

Table 4 – Additional Information – List of Attachments

Attachment #	Description/Document Title
Attachment A	**Collection System Operations Log**
Attachment B	**Wellhead Pressure Exceedances**
Attachment C	**Wellhead Oxygen and Temperature Exceedances**
Attachment D	**Surface Emissions Monitoring Exceedances**
Attachment E	**Well Commissioning Log**
Attachment F	**CIL Landfill Gas System Plan**

Collection Systems Operations Log
Cherry Island Landfill
January 1, 2017 through June 30, 2017

Condition 3 - Table 1 (b)(1)(iii)(D), (c)(1)(x)(C)(2), (d)(1)(x)(B)(1) and (2) Emission Units 2, 3 and 5

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/1/17			0			0	24.00	
1/2/17			0			0	24.00	
1/3/17			0			0	24.00	
1/4/17			0			0	24.00	
1/5/17			0			0	24.00	
1/6/17			0	7:12	7:25	0.21	22.92	Flare on and off to control vacuum
1/6/17				12:51	13:10	0.31		Flare on and off to control vacuum
1/6/17				13:33	13:59	0.43		Flare on and off to control vacuum
1/6/17				21:27	21:35	0.13		Flare on and off to control vacuum
1/7/17			0	5:19	5:49	0.5	20.25	Flare on and off to control vacuum
1/7/17				6:51	7:20	0.48		Flare on and off to control vacuum
1/7/17				8:11	8:41	0.5		Flare on and off to control vacuum
1/7/17				9:24	9:56	0.53		Flare on and off to control vacuum
1/7/17				10:26	11:00	0.56		Flare on and off to control vacuum
1/7/17				18:21	19:32	1.18		Flare on and off to control vacuum
1/8/17			0	0:09	0:35	0.43	0.27	Valve frozen
1/8/17				0:42		23.3		Valve frozen
1/9/17	10:03	10:05	0.03		10:16	10.45	1.55	Flare on and off to control vacuum
1/9/17	10:34	10:36	0.03	10:35	10:38	0.05		Flare on and off to control vacuum
1/9/17				10:41	11:31	0.83		Flare on and off to control vacuum
1/9/17				11:42	12:29	0.78		Flare on and off to control vacuum
1/9/17				13:15	13:29	0.23		Flare on and off to control vacuum
1/9/17				13:53		10.11		Flare on and off to control vacuum
1/10/17			0		11:32	11.53	11.87	Flare on and off to control vacuum
1/10/17				16:41	16:55	0.06		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/10/17				17:17	17:33	0.26		Flare on and off to control vacuum
1/10/17				23:08	23:25	0.28		Flare on and off to control vacuum
1/11/17			0	0:19	0:35	0.26	21.96	Flare on and off to control vacuum
1/11/17				0:59	1:14	0.25		Flare on and off to control vacuum
1/11/17				1:43	1:58	0.25		Flare on and off to control vacuum
1/11/17				2:31	2:47	0.26		Flare on and off to control vacuum
1/11/17				4:10	4:25	0.25		Flare on and off to control vacuum
1/11/17				5:07	5:22	0.25		Flare on and off to control vacuum
1/11/17				10:11	10:16	0.08		Flare on and off to control vacuum
1/11/17				11:54	12:10	0.26		Flare on and off to control vacuum
1/11/17				13:27	13:38	0.18		Flare on and off to control vacuum
1/12/17			0	17:17	17:32	0.25	23.75	Flare on and off to control vacuum
1/13/17			0	13:52	14:16	0.4	23.60	Flare on and off to control vacuum
1/14/17	10:44	10:46	0.03	6:13	6:26	0.21	14.82	Operator error, new computer
1/14/17				7:49	7:59	0.16		Flare on and off to control vacuum
1/14/17				8:14	8:31	0.28		Flare on and off to control vacuum
1/14/17				8:46	8:54	0.13		Flare on and off to control vacuum
1/14/17				9:01	9:12	0.18		Flare on and off to control vacuum
1/14/17				10:26	10:42	0.26		Flare on and off to control vacuum
1/14/17				10:50	11:01	0.18		Flare on and off to control vacuum
1/14/17				13:08	13:39	0.51		Flare on and off to control vacuum
1/14/17				15:54	17:07	1.21		Flare on and off to control vacuum
1/14/17				17:40	18:09	0.48		Flare on and off to control vacuum
1/14/17				18:25		5.58		Flare on and off to control vacuum
1/15/17			0		9:57	9.95	13.79	Flare on and off to control vacuum
1/15/17				14:22	14:38	0.26		Flare on and off to control vacuum
1/16/17			0			0	24.00	
1/17/17			0	7:41	7:48	0.11	23.23	Flare on and off to control vacuum
1/17/17				8:33	8:42	0.15		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/17/17				9:11	9:23	0.2		Flare on and off to control vacuum
1/17/17				19:42	20:01	0.31		Flare on and off to control vacuum
1/18/17			0	6:59	7:04	0.08	22.89	Flare on and off to control vacuum
1/18/17				11:31	11:36	0.08		Flare on and off to control vacuum
1/18/17				17:11	18:08	0.95		Flare on and off to control vacuum
1/19/17			0	9:18	9:38	0.33	17.83	Flare on and off to control vacuum
1/19/17				10:15	14:40	4.41		Flare on and off to control vacuum
1/19/17				14:48	15:01	0.21		Flare on and off to control vacuum
1/19/17				15:06	15:16	0.16		Flare on and off to control vacuum
1/19/17				15:25	15:34	0.15		Flare on and off to control vacuum
1/19/17				15:41	15:52	0.18		Flare on and off to control vacuum
1/19/17				16:37	17:21	0.73		Flare on and off to control vacuum
1/20/17			0	2:39	3:26	0.78	22.03	Flare on and off to control vacuum
1/20/17				4:44	4:54	0.16		Flare on and off to control vacuum
1/20/17				5:16	5:27	0.18		Flare on and off to control vacuum
1/20/17				5:33	5:41	0.13		Flare on and off to control vacuum
1/20/17				5:50	6:00	0.16		Flare on and off to control vacuum
1/20/17				6:56	7:02	0.1		Flare on and off to control vacuum
1/20/17				7:32	7:47	0.25		Flare on and off to control vacuum
1/20/17				9:28	9:41	0.21		Flare on and off to control vacuum
1/21/17			0	11:30	12:15	0.75	20.84	Flare on and off to control vacuum
1/21/17				12:29	12:41	0.2		Flare on and off to control vacuum
1/21/17				12:59	13:08	0.15		Flare on and off to control vacuum
1/21/17				13:21	13:36	0.25		Flare on and off to control vacuum
1/21/17				13:47	14:00	0.21		Flare on and off to control vacuum
1/21/17				14:17	14:30	0.21		Flare on and off to control vacuum
1/21/17				14:38	14:54	0.26		Flare on and off to control vacuum
1/21/17				15:05	15:22	0.28		Flare on and off to control vacuum
1/21/17				15:32	15:52	0.33		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/21/17				16:07	16:23	0.26		Flare on and off to control vacuum
1/21/17				16:34	16:50	0.26		Flare on and off to control vacuum
1/22/17			0	13:32	13:53	0.35	23.65	Flare on and off to control vacuum
1/23/17			0	2:55	3:10	0.25	11.16	Flare on and off to control vacuum
1/23/17				10:16	10:58	0.7		Flare on and off to control vacuum
1/23/17				11:10	11:24	0.23		Flare on and off to control vacuum
1/23/17				11:37	11:54	0.28		Flare on and off to control vacuum
1/23/17				12:05	12:21	0.26		Flare on and off to control vacuum
1/23/17				12:35	12:51	0.26		Flare on and off to control vacuum
1/23/17				12:59	13:36	0.61		Flare on and off to control vacuum
1/23/17				13:45		10.25		Flare on and off to control vacuum
1/24/17			0		5:02	5.03	17.61	Flare on and off to control vacuum
1/24/17				5:11	5:35	0.4		Flare on and off to control vacuum
1/24/17				5:45	6:21	0.6		Flare on and off to control vacuum
1/24/17				7:38	7:49	0.18		Flare on and off to control vacuum
1/24/17				8:15	8:26	0.18		Flare on and off to control vacuum
1/25/17			0	19:18	19:22	0.06	23.94	Flare on and off to control vacuum
1/26/17			0	12:50	13:00	0.16	23.66	Flare on and off to control vacuum
1/26/17				16:06	16:17	0.18		Flare on and off to control vacuum
1/27/17			0	16:53	17:13	0.33	19.85	Flare on and off to control vacuum
1/27/17				17:27	17:39	0.2		Flare on and off to control vacuum
1/27/17				17:49	18:00	0.18		Flare on and off to control vacuum
1/27/17				18:09	18:22	0.21		Flare on and off to control vacuum
1/27/17				18:29	18:42	0.21		Flare on and off to control vacuum
1/27/17				18:52	19:04	0.2		Flare on and off to control vacuum
1/27/17				19:16	19:28	0.2		Flare on and off to control vacuum
1/27/17				19:37	19:50	0.21		Flare on and off to control vacuum
1/27/17				19:54	20:05	0.18		Flare on and off to control vacuum
1/27/17				20:11	20:27	0.26		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/27/17				20:36	20:53	0.28		Flare on and off to control vacuum
1/27/17				21:05	21:21	0.26		Flare on and off to control vacuum
1/27/17				21:31	21:45	0.23		Flare on and off to control vacuum
1/27/17				21:55	22:10	0.25		Flare on and off to control vacuum
1/27/17				22:22	22:42	0.33		Flare on and off to control vacuum
1/27/17				22:55	23:06	0.18		Flare on and off to control vacuum
1/27/17				23:18	23:29	0.18		Flare on and off to control vacuum
1/27/17				23:36	23:48	0.2		Flare on and off to control vacuum
1/27/17				23:56		0.06		Flare on and off to control vacuum
1/28/17			0		0:09	0.15	19.40	Flare on and off to control vacuum
1/28/17				0:12	0:27	0.25		Flare on and off to control vacuum
1/28/17				0:42	0:54	0.2		Flare on and off to control vacuum
1/28/17				1:31	1:45	0.23		Flare on and off to control vacuum
1/28/17				2:00	2:12	0.2		Flare on and off to control vacuum
1/28/17				2:21	2:33	0.2		Flare on and off to control vacuum
1/28/17				2:40	2:52	0.2		Flare on and off to control vacuum
1/28/17				3:01	3:12	0.18		Flare on and off to control vacuum
1/28/17				3:25	3:35	0.16		Flare on and off to control vacuum
1/28/17				3:46	4:00	0.23		Flare on and off to control vacuum
1/28/17				4:08	4:18	3:50		Flare on and off to control vacuum
1/28/17				4:33	4:44	0.18		Flare on and off to control vacuum
1/28/17				4:49	5:00	0.18		Flare on and off to control vacuum
1/28/17				5:09	5:20	0.18		Flare on and off to control vacuum
1/28/17				5:34	5:44	0.16		Flare on and off to control vacuum
1/28/17				5:51	6:02	0.18		Flare on and off to control vacuum
1/28/17				6:08	6:17	0.15		Flare on and off to control vacuum
1/28/17				6:33	6:43	0.16		Flare on and off to control vacuum
1/28/17				8:17	8:28	0.18		Flare on and off to control vacuum
1/28/17				10:11	10:22	0.18		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/28/17				11:29	11:39	0.16		Flare on and off to control vacuum
1/28/17				12:49	12:59	0.16		Flare on and off to control vacuum
1/28/17				14:02	14:10	0.13		Flare on and off to control vacuum
1/28/17				15:20	15:31	0.18		Flare on and off to control vacuum
1/28/17				16:49	16:58	0.05		Flare on and off to control vacuum
1/28/17				18:10	18:15	0.08		Flare on and off to control vacuum
1/28/17				21:29	21:37	0.13		Flare on and off to control vacuum
1/29/17			0	0:16	0:26	0.16	15.89	Flare on and off to control vacuum
1/29/17				2:47	2:57	0.16		Flare on and off to control vacuum
1/29/17				10:57	11:39	0.3		Flare on and off to control vacuum
1/29/17				11:50	12:00	3:50		Flare on and off to control vacuum
1/29/17				12:09	12:24	0.25		Flare on and off to control vacuum
1/29/17				12:32	12:45	0.21		Flare on and off to control vacuum
1/29/17				12:53	13:03	0.16		Flare on and off to control vacuum
1/29/17				13:17	13:28	0.18		Flare on and off to control vacuum
1/29/17				13:39	13:52	0.21		Flare on and off to control vacuum
1/29/17				14:01	14:13	0.2		Flare on and off to control vacuum
1/29/17				14:19	14:32	0.21		Flare on and off to control vacuum
1/29/17				14:35	14:49	0.23		Flare on and off to control vacuum
1/29/17				14:58	15:11	0.21		Flare on and off to control vacuum
1/29/17				15:23	15:39	0.26		Flare on and off to control vacuum
1/29/17				15:54	16:05	0.18		Flare on and off to control vacuum
1/29/17				16:11	16:22	0.18		Flare on and off to control vacuum
1/29/17				16:31	16:42	0.18		Flare on and off to control vacuum
1/29/17				16:49	17:02	0.21		Flare on and off to control vacuum
1/29/17				17:15	17:34	0.23		Flare on and off to control vacuum
1/29/17				17:44	17:57	0.21		Flare on and off to control vacuum
1/29/17				18:06	18:18	0.2		Flare on and off to control vacuum
1/29/17				18:27	18:41	0.23		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/29/17				18:54	19:14	0.66		Flare on and off to control vacuum
1/29/17				19:23	19:36	0.21		Flare on and off to control vacuum
1/29/17				19:46	20:00	0.23		Flare on and off to control vacuum
1/29/17				20:10	20:22	0.2		Flare on and off to control vacuum
1/29/17				20:31	20:45	0.23		Flare on and off to control vacuum
1/29/17				20:54	21:08	0.23		Flare on and off to control vacuum
1/29/17				21:16	21:32	0.26		Flare on and off to control vacuum
1/29/17				21:43	21:59	0.26		Flare on and off to control vacuum
1/29/17				22:18	22:30	0.2		Flare on and off to control vacuum
1/29/17				22:45	23:04	0.68		Flare on and off to control vacuum
1/29/17				23:15	23:33	0.3		Flare on and off to control vacuum
1/29/17				23:42	23:50	0.13		Flare on and off to control vacuum
1/30/17			0	0:02	0:21	0.35	13.00	Flare on and off to control vacuum
1/30/17				0:29	0:48	0.31		Flare on and off to control vacuum
1/30/17				0:54	1:17	0.38		Flare on and off to control vacuum
1/30/17				1:26	1:41	0.25		Flare on and off to control vacuum
1/30/17				1:48	2:01	0.21		Flare on and off to control vacuum
1/30/17				2:08	3:28	0.33		Flare on and off to control vacuum
1/30/17				3:43	3:55	0.2		Flare on and off to control vacuum
1/30/17				4:00	4:14	0.23		Flare on and off to control vacuum
1/30/17				4:21	10:05	5.73		Flare on and off to control vacuum
1/30/17				10:36	10:46	0.16		Flare on and off to control vacuum
1/30/17				10:54	11:13	0.31		Flare on and off to control vacuum
1/30/17				12:24	12:35	0.18		Flare on and off to control vacuum
1/30/17				14:05	14:15	0.16		Flare on and off to control vacuum
1/30/17				14:19	14:29	0.16		Flare on and off to control vacuum
1/30/17				14:37	14:46	0.15		Flare on and off to control vacuum
1/30/17				15:24	15:34	0.16		Flare on and off to control vacuum
1/30/17				15:40	15:49	0.15		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
1/30/17				15:52	16:09	0.12		Flare on and off to control vacuum
1/30/17				16:23	16:35	0.21		Flare on and off to control vacuum
1/30/17				16:41	16:54	0.21		Flare on and off to control vacuum
1/30/17				17:01	17:13	0.2		Flare on and off to control vacuum
1/30/17				17:21	17:33	0.2		Flare on and off to control vacuum
1/30/17				17:41	17:54	0.21		Flare on and off to control vacuum
1/30/17				18:35	19:01	0.43		Flare on and off to control vacuum
1/31/17			0	6:04	11:34	5.5	16.61	Flare on and off to control vacuum
1/31/17				12:50	13:01	0.18		Flare on and off to control vacuum
1/31/17				13:49	13:59	0.16		Flare on and off to control vacuum
1/31/17				14:08	14:18	0.16		Flare on and off to control vacuum
1/31/17				18:04	19:02	0.96		Flare on and off to control vacuum
1/31/17				22:22	22:48	0.43		Flare on and off to control vacuum
2/1/17			0	1:20	1:29	0.15	20.64	Flare starts and stops to maintain vacuum
2/1/17				6:41	6:51	0.15		Flare starts and stops to maintain vacuum
2/1/17				7:15	7:24	0.15		Flare starts and stops to maintain vacuum
2/1/17				9:42	9:52	0.15		Flare starts and stops to maintain vacuum
2/1/17				11:06	11:15	0.15		Flare starts and stops to maintain vacuum
2/1/17				12:23	13:29	1.1		Flare starts and stops to maintain vacuum
2/1/17				14:20	15:42	1.36		Flare starts and stops to maintain vacuum
2/1/17				17:50	18:00	0.15		Flare starts and stops to maintain vacuum
2/2/17			0	5:44	14:54	9.16	14.07	Flare starts and stops to maintain vacuum
2/2/17				16:16	16:35	0.31		Flare starts and stops to maintain vacuum
2/2/17				17:56	18:05	0.15		Flare starts and stops to maintain vacuum
2/2/17				19:23	19:34	0.18		Flare starts and stops to maintain vacuum
2/2/17				20:54	21:04	0.13		Flare starts and stops to maintain vacuum
2/3/17			0	10:18	11:08	0.83	16.16	Flare starts and stops to maintain vacuum
2/3/17				11:17	12:34	1.28		Flare starts and stops to maintain vacuum
2/3/17				12:38	14:02	0.66		Flare starts and stops to maintain vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
2/3/17				14:24	14:47	0.38		Flare starts and stops to maintain vacuum
2/3/17				14:55	15:19	0.4		Flare starts and stops to maintain vacuum
2/3/17				15:25	16:42	1.28		Flare starts and stops to maintain vacuum
2/3/17				16:52	20:09	3.01		Flare starts and stops to maintain vacuum
2/4/17			0			0	24.00	
2/5/17			0			0	24.00	
2/6/17			0			0	24.00	
2/7/17	7:36	7:37	0.01	7:36	7:47	0.18	23.82	Power Glitch
2/8/17			0	17:27	17:48	0.35	22.52	Flare on and off to control vacuum
2/8/17				18:10	18:17	0.11		Flare on and off to control vacuum
2/8/17				18:22	18:33	0.16		Flare on and off to control vacuum
2/8/17				18:47	18:56	0.15		Flare on and off to control vacuum
2/8/17				19:24	20:07	0.71		Flare on and off to control vacuum
2/9/17	8:03	8:05	0.03	5:41	5:58	0.28	18.25	Power Glitch
2/9/17				6:03	8:06	2.05		Flare on and off to control vacuum
2/9/17				8:09	9:16	1.11		Flare on and off to control vacuum
2/9/17				9:50	9:55	0.08		Flare on and off to control vacuum
2/9/17				10:47	12:56	2.15		Flare on and off to control vacuum
2/9/17				13:50	13:55	0.08		Flare on and off to control vacuum
2/10/17				7:16	7:40	0.4	21.91	Flare on and off to control vacuum
2/10/17				8:31	8:35	0.06		Flare on and off to control vacuum
2/10/17	8:42	8:44	0.03	8:42	9:06	0.4		Power Glitch
2/10/17				11:16	12:31	1.23		Flare on and off to control vacuum
2/11/17			0	4:21	4:33	0.2	23.80	Flare on and off to control vacuum
2/12/17	17:15	17:20	0.08	17:48	18:00	0.36	23.53	Cummins having trouble with their valve
2/12/17	17:27	17:46	0.31	21:06	21:13	0.11		Flare on and off to control vacuum
2/13/17			0	9:48	9:51	0.05	14.70	Flare on and off to control vacuum
2/13/17				13:37	14:04	0.45		Flare on and off to control vacuum
2/13/17				14:51	14:56	0.08		Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
2/13/17				15:03	15:13	0.16		Flare on and off to control vacuum
2/13/17				15:26		8.56		Flare on and off to control vacuum
2/14/17	10:18	10:20	0.03		9:36	9.6	13.80	Power Glitch
2/14/17				10:01	10:08	0.11		Flare on and off to control vacuum
2/14/17				10:26	10:49	0.38		Flare on and off to control vacuum
2/14/17				17:06	17:13	0.11		Flare on and off to control vacuum
2/15/17			0			0	24.00	
2/16/17			0			0	24.00	
2/17/17			0	7:26	8:04	0.5	8.07	Flare on and off to control vacuum
2/17/17				8:06	13:33	5.65		Flare on and off to control vacuum
2/17/17				13:39	13:41	0.03		Flare on and off to control vacuum
2/17/17				14:45		9.75		Flare on and off to control vacuum
2/18/17					1:27	1.95	4.48	Flare on and off to control vacuum
2/18/17				1:41	2:10	0.51		Flare on and off to control vacuum
2/18/17	2:25	2:27	0.03	2:25	3:32	1.11		Power Glitch
2/18/17				3:54	8:06	4.2		Flare on and off to control vacuum
2/18/17				9:50	17:09	8.31		Flare on and off to control vacuum
2/18/17	20:14	20:15	0.01	20:25	20:39	0.23		Power Glitch
2/18/17				20:47		3.21		Flare on and off to control vacuum
2/19/17			0		1:11	1.18	22.01	Flare on and off to control vacuum
2/19/17				1:22	1:43	0.35		Flare on and off to control vacuum
2/19/17				1:57	2:25	0.46		Flare on and off to control vacuum
2/20/17	17:17	17:26	0.15	17:17	17:44	0.45	23.45	Cummins valve closed
2/20/17				22:17	22:23	0.1		Flare on and off to control vacuum
2/21/17			0			0	24.00	
2/22/17			0			0	24.00	
2/23/17			0	20:18		3.7	20.30	Flare on and off to control vacuum
2/24/17			0		5:14	5.23	18.77	Flare on and off to control vacuum
2/25/17			0	22:47	23:33	0.76	22.91	Flare on and off to control vacuum
2/25/17				23:40		0.33		Flare on and off to control vacuum
2/26/17			0		7:40	7.66	0.36	Flare on and off to control vacuum
2/26/17				8:02		15.98		Flare on and off to control vacuum
2/27/17			0		6:04	6.06	17.94	Flare on and off to control vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
2/28/17			0			0	24.00	
3/1/17			0			0	24.00	
3/2/17			0			0	24.00	
3/3/17			0	8:37	9:39	1.03	22.97	Flare starts and stops to maintain vacuum
3/4/17			0	1:45	2:21	0.6	19.34	Flare starts and stops to maintain vacuum
3/4/17				3:58	8:06	4.06		Flare starts and stops to maintain vacuum
3/5/17			0	12:53	5:54	5.01	15.55	Flare starts and stops to maintain vacuum
3/5/17				6:01	6:26	0.41		Flare starts and stops to maintain vacuum
3/5/17				6:53	9:55	3.03		Flare starts and stops to maintain vacuum
3/6/17			0	5:21	5:37	0.26	22.19	Flare starts and stops to maintain vacuum
3/6/17				5:56	7:31	1.55		Flare starts and stops to maintain vacuum
3/7/17			0			0	24.00	
3/8/17			0			0	24.00	
3/9/17			0			0	24.00	
3/10/17			0			0	24.00	
3/11/17			0	1:52	2:11	0.29	23.26	Flare starts and stops to maintain vacuum
3/11/17				22:52	23:02	0.16		Flare starts and stops to maintain vacuum
3/11/17				23:16	23:36	0.29		Flare starts and stops to maintain vacuum
3/12/17			0	1:18	1:25	0.1	18.65	Flare starts and stops to maintain vacuum
3/12/17				1:37	1:44	0.1		Flare starts and stops to maintain vacuum
3/12/17				1:51	7:21	5.15		Flare starts and stops to maintain vacuum
3/13/17			0			0	24.00	
3/14/17			0	7:04	7:08	0.06	23.94	Flare starts and stops to maintain vacuum
3/15/17			0	9:01	9:08	0.1	23.86	Flare starts and stops to maintain vacuum
3/15/17				9:11	9:14	0.04		Flare starts and stops to maintain vacuum
3/16/17			0	8:33	8:46	0.2	23.60	Flare starts and stops to maintain vacuum
3/16/17				9:13	9:26	0.2		Flare starts and stops to maintain vacuum
3/17/17			0			0	24.00	
3/18/17			0			0	24.00	
3/19/17			0			0	24.00	
3/20/17			0			0	24.00	
3/21/17			0			0	24.00	
3/22/17			0			0	24.00	

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
3/23/17	10:49	10:55	0.1	7:31	10:56	3.31	20.69	While Rosey's was cleaning drains we sucked the sump for central pump station dry.
3/23/17	11:04	11:30	0.43					While Rosey's was cleaning drains we sucked the sump for central pump station dry.
3/23/17	12:52	13:22	0.5					While Rosey's was cleaning drains we sucked the sump for central pump station dry.
3/24/17			0			0	24.00	
3/25/17			0	1:40	1:48	0.13	23.72	Flare starts and stops to maintain vacuum
3/25/17				7:51	8:00	0.15		Flare starts and stops to maintain vacuum
3/26/17			0			0	24.00	
3/27/17			0			0	24.00	
3/28/17	14:20	14:21	0.01	14:20	14:48	0.45	23.55	Operator accidently tripped plant and flare
3/29/17			0	3:50	5:33	1.71	21.58	Flare starts and stops to maintain vacuum
3/29/17				8:22	9:05	0.71		Flare starts and stops to maintain vacuum
3/30/17			0	16:24	16:37	0.21	21.37	Flare starts and stops to maintain vacuum
3/30/17				18:33	21:00	2.42		Flare starts and stops to maintain vacuum
3/31/17			0	12:16	14:19	2.03	18.63	Flare starts and stops to maintain vacuum
3/31/17				20:03	20:41	0.63		Flare starts and stops to maintain vacuum
3/31/17				21:17		2.71		Flare starts and stops to maintain vacuum
4/1/17			0		7:50	7.83	15.95	Flare starts and stops to maintain vacuum
4/1/17				19:19	19:26	0.11		Flare starts and stops to maintain vacuum
4/1/17				21:01	21:04	0.05		Flare starts and stops to maintain vacuum
4/1/17				21:24	21:28	0.06		Flare starts and stops to maintain vacuum
4/2/17			0			0	24.00	
4/3/17			0	10:44	10:48	0.06	23.94	Flare starts and stops to maintain vacuum
4/4/17			0	7:50	7:53	0.05	23.90	Flare starts and stops to maintain vacuum
4/4/17				9:45	9:48	0.05		Flare starts and stops to maintain vacuum
4/5/17			0			0	24.00	
4/6/17				14:36	14:41	0.08	23.67	Flare starts and stops to maintain vacuum
4/6/17	15:29	15:31	0.03	15:29	15:35	0.1		Power Glitch
4/6/17				15:51	16:00	0.15		Flare starts and stops to maintain vacuum
4/7/17			0			0	24.00	
4/8/17			0			0	24.00	
4/9/17			0			0	24.00	

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
4/10/17			0			0	24.00	
4/11/17			0	11:20	11:25	0.08	23.71	Flare starts and stops to maintain vacuum
4/11/17				14:15	14:28	0.21		Flare starts and stops to maintain vacuum
4/12/17			0			0	24.00	
4/13/17			0			0	24.00	
4/14/17			0			0	24.00	
4/15/17			0			0	24.00	
4/16/17			0			0	24.00	
4/17/17			0	14:55	15:01	0.1	23.90	Flare starts and stops to maintain vacuum
4/18/17	14:25	14:44	0.31	14:25	14:56	0.51	23.49	Operator dropped box on keyboard causing shutdown
4/19/17			0			0	24.00	
4/20/17			0	13:59	14:03	0.06	23.50	Flare starts and stops to maintain vacuum
4/20/17				16:01	16:09	0.13		Flare starts and stops to maintain vacuum
4/20/17				16:35	16:54	0.31		Flare starts and stops to maintain vacuum
4/21/17			0			0	24.00	
4/22/17			0			0	24.00	
4/23/17			0	19:21	19:34	0.21	22.18	Flare starts and stops to maintain vacuum
4/23/17				19:37	19:47	0.16		Flare starts and stops to maintain vacuum
4/23/17				19:52	19:59	0.11		Flare starts and stops to maintain vacuum
4/23/17				20:04	20:12	0.13		Flare starts and stops to maintain vacuum
4/23/17				20:16	20:26	0.16		Flare starts and stops to maintain vacuum
4/23/17				20:29	20:40	0.18		Flare starts and stops to maintain vacuum
4/23/17				20:45	20:53	0.13		Flare starts and stops to maintain vacuum
4/23/17				20:57	21:05	0.13		Flare starts and stops to maintain vacuum
4/23/17				21:11	21:16	0.08		Flare starts and stops to maintain vacuum
4/23/17				21:21	21:28	0.11		Flare starts and stops to maintain vacuum
4/23/17				21:32	21:39	0.11		Flare starts and stops to maintain vacuum
4/23/17				21:44	21:50	0.1		Flare starts and stops to maintain vacuum
4/23/17				21:53	21:59	0.1		Flare starts and stops to maintain vacuum
4/23/17				22:02	22:09	0.11		Flare starts and stops to maintain vacuum
4/24/17			0	16:17	16:37	0.33	16.58	Flare starts and stops to maintain vacuum
4/24/17				16:39	16:58	0.31		Flare starts and stops to maintain vacuum
4/24/17				17:04	17:19	0.25		Flare starts and stops to maintain vacuum
4/24/17				17:23	17:42	0.31		Flare starts and stops to maintain vacuum

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
4/24/17				17:48	17:58	0.16		Flare starts and stops to maintain vacuum
4/24/17				18:03	18:15	0.36		Flare starts and stops to maintain vacuum
4/24/17				18:18		5.7		Flare starts and stops to maintain vacuum
4/25/17			0		6:05	6.08	14.22	Flare starts and stops to maintain vacuum
4/25/17				12:43	12:47	0.06		Flare starts and stops to maintain vacuum
4/25/17				12:51	13:02	0.18		Flare starts and stops to maintain vacuum
4/25/17				14:35	14:41	0.1		Flare starts and stops to maintain vacuum
4/25/17				14:56	15:10	0.23		Flare starts and stops to maintain vacuum
4/25/17				15:18	15:39	0.35		Flare starts and stops to maintain vacuum
4/25/17				15:49	18:36	2.78		Flare starts and stops to maintain vacuum
4/26/17				14:22	15:23	1.01	15.02	Flare starts and stops to maintain vacuum
4/26/17	15:25	16:14	0.81	15:25	16:19	0.9		Problem with PLC, Flare command not working
4/26/17				16:22	16:29	0.11		Flare starts and stops to maintain vacuum
4/26/17				17:02		6.96		Flare starts and stops to maintain vacuum
4/27/17			0		6:00	6.00	18.00	Flare starts and stops to maintain vacuum
4/28/17			0	10:24	11:16	0.86	23.14	Flare starts and stops to maintain vacuum
4/29/17			0			0	24.00	
4/30/17			0			0	24.00	
5/1/17			0			0	24.00	
5/2/17			0			0	24.00	
5/3/17			0			0	24.00	
5/4/17			0			0	24.00	
5/5/17			0	13:21	13:26	0.08	23.92	Flare starts and stops to maintain vacuum
5/6/17			0			0	24.00	
5/7/17			0			0	24.00	
5/8/17			0			0	24.00	
5/9/17			0			0	24.00	
5/10/17			0	19:57	20:30	0.55	23.45	Flare starts and stops to maintain vacuum
5/11/17			0			0	24.00	
5/12/17			0			0	24.00	
5/13/17			0			0	24.00	
5/14/17			0			0	24.00	
5/15/17			0			0	24.00	
5/16/17			0			0	24.00	

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
5/17/17	8:06	09:35	1.48	8:06	9:50	1.73	22.27	Power Failure
5/18/17			0			0	24.00	
5/19/17			0			0	24.00	
5/20/17			0	17:41	19:57	2.26	19.84	Flare starts and stops to maintain vacuum
5/20/17				20:28	21:36	1.13		Flare starts and stops to maintain vacuum
5/20/17				21:56	22:33	0.61		Flare starts and stops to maintain vacuum
5/20/17				22:50		0.16		Flare starts and stops to maintain vacuum
5/21/17			0		6:04	6.23	17.77	Flare starts and stops to maintain vacuum
5/22/17			0			0	24.00	
5/23/17				01:31	3:08	1.61	22.13	Flare starts and stops to maintain vacuum
5/23/17	12:15	12:57	0.7	12:58	13:14	0.26		Problems at Cummins
5/24/17			0			0	24.00	
5/25/17				12:58	13:03	0.08	22.48	Flare starts and stops to maintain vacuum
5/25/17				13:10	14:17	1.11		Flare starts and stops to maintain vacuum
5/25/17	14:30	14:40	0.16	14:42	15:02	0.33		Problems at Cummins
5/26/17			0	10:36	11:09	0.55	23.24	Problem with flare valve
5/26/17				11:11	11:12	0.01		Problem with flare valve
5/26/17				11:13	11:15	0.03		Problem with flare valve
5/26/17				11:16	11:18	0.03		Problem with flare valve
5/26/17				11:19	11:20	0.01		Problem with flare valve
5/26/17				11:22	11:27	0.08		Problem with flare valve
5/26/17				11:28	11:31	0.05		Problem with flare valve
5/27/17			0			0	24.00	
5/28/17			0			0	24.00	
5/29/17			0			0	24.00	
5/30/17			0			0	24.00	
5/31/17			0			0	24.00	
6/1/17			0			0	24.00	
6/2/17			0	6:17	6:25	0.13	23.87	Flare starts and stops to maintain vacuum
6/3/17			0			0	24.00	
6/4/17			0			0	24.00	
6/5/17			0			0	24.00	
6/6/17			0			0	24.00	
6/7/17	17:09	18:06	0.95	17:09	18:17	1.13	22.87	Delmarva scheduled a power outage

Date	Plant Stopped	Plant Started	Down time Hours	PEI Flare Stopped	PEI Flare Started	Down time Hours	Run Hours	Reason
6/8/17			0			0	24.00	
6/9/17			0			0	24.00	
6/10/17			0			0	24.00	
6/11/17			0			0	24.00	
6/12/17			0	15:10	15:15	0.08	15.66	Flare starts and stops to maintain vacuum
6/12/17				15:16	15:21	0.08		Flare starts and stops to maintain vacuum
6/12/17				15:34	15:57	0.38		Flare starts and stops to maintain vacuum
6/12/17				16:12		7.8		Flare starts and stops to maintain vacuum
6/13/17					6:57	6.95	12.05	Flare starts and stops to maintain vacuum
6/13/17	16:48	21:33	4.75	16:48	21:48	5.00		Delmarva scheduled a power outage for repairs
6/14/17			0			0	24.00	
6/15/17			0			0	24.00	
6/16/17			0			0	24.00	
6/17/17			0	22:20		1.66	22.34	Flare starts and stops to maintain vacuum
6/18/17			0		3:47	3.78	15.42	Flare starts and stops to maintain vacuum
6/18/17				19:12		4.8		Flare starts and stops to maintain vacuum
6/19/17			0		7:46	7.6	16.40	Flare starts and stops to maintain vacuum
6/20/17			0	5:02	6:29	1.45	21.99	Flare starts and stops to maintain vacuum
6/20/17				9:53	10:27	0.56		Flare starts and stops to maintain vacuum
6/21/17			0			0	24.00	
6/22/17			0			0	24.00	
6/23/17			0			0	24.00	
6/24/17			0			0	24.00	
6/25/17			0			0	24.00	
6/26/17			0			0	24.00	
6/27/17			0			0	24.00	
6/28/17			0			0	24.00	
6/29/17			0			0	24.00	
6/30/17			0			0	24.00	

WELLHEAD MONITORING RESULTS
PRESSURE EXCEEDANCES (with passing read shown)
Cherry Island Landfill
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Condition 3 - Table 1 (c)(1)(x)(C) Emission Unit 4

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
January							
CILFG005	1/4/2017 13:56	19.1	0.0	0.0	62		No Change
CILFG005	1/5/2017 10:34	16.5	0.2	-23.8	61	<1	Increased Vacuum
CILFG014	1/4/2017 8:43	44.1	0.0	0.0	53		No Change
CILFG014	1/5/2017 10:24	37.0	0.1	-3.8	81	1	No Change
CILFG094R	1/11/2017 13:12	57.6	0.0	0.1	124		Increased Vacuum
CILFG094R	1/11/2017 13:13	53.6	1.1	-11.3	124	<1	Re Check
CILFG207R	1/4/2017 8:40	57.8	0.0	1.7	126		No Change
CILFG207R	1/6/2017 10:31	57.9	0.6	-29.4	127	2	Re Check
CILFHC15	1/24/2017 10:41	57.8	0.3	2.3	46		Increased Vacuum
CILFHC15	1/24/2017 10:43	58.2	0.0	-0.9	45	<1	Re Check
CILFHC17	1/24/2017 10:47	57.6	0.3	0.7	46		Increased Vacuum
CILFHC17	1/24/2017 10:49	58.6	0.4	-1.1	47	<1	Re Check
February							
CILFG011	2/1/2017 8:40	14.5	0.0	0.1	40		Increased Vacuum
CILFG011	2/1/2017 8:42	14.7	0.0	-0.1	43	<1	Re Check
CILFG028	2/1/2017 9:04	47.6	0.2	0.1	40		Increased Vacuum
CILFG028	2/1/2017 9:04	47.6	0.2	-0.1	42	<1	Increased Vacuum
CILFG032	2/1/2017 9:12	1.7	2.3	0.1	53		Increased Vacuum
CILFG032	2/1/2017 9:14	4.4	1.2	-0.02	67	<1	Re Check
CILFG039	2/1/2017 9:34	21.2	0.7	0.0	65		Increased Vacuum
CILFG039	2/1/2017 9:38	20.5	0.7	-0.1	67	<1	Re Check
CILFG132	2/23/2017 10:10	31.6	8.9	-18.1	66		Decreased Vacuum
CILFG132	2/23/2017 10:12	38.9	6.9	-11.7	63		Decreased Vacuum
CILFG132	2/27/2017 11:57	60.5	0.2	0.2	62		Increased Vacuum
CILFG132	2/27/2017 11:58	58.7	1.3	-1.6	61	4	Re Check
CILFG134	2/20/2017 10:37	11.7	11.3	-0.3	74		Increased Vacuum
CILFG134	2/20/2017 10:38	5.9	12.2	-5.2	91		No Change
CILFG134	2/21/2017 14:56	4.8	12.4	-4.7	97		Decreased Vacuum
CILFG134	2/21/2017 14:58	4.7	12.4	0.1	87		Decreased Vacuum
CILFG134	2/23/2017 13:08	66.5	0.5	0.2	78		Increased Vacuum
CILFG134	2/23/2017 13:10	58.2	0.6	-0.02	78	3	Re Check
CILFG246R	2/21/2017 11:39	25.1	9.4	-11.0	78		Decreased Vacuum
CILFG246R	2/21/2017 11:40	7.4	17.4	-7.6	71		Decreased Vacuum
CILFG246R	2/23/2017 13:32	60.7	0.1	0.8	82		Increased Vacuum
CILFG246R	2/23/2017 13:34	54.8	0.0	-2.2	89	2	Re Check
CILFHC07	2/21/2017 9:21	14.9	15.6	-23.7	55		Decreased Vacuum
CILFHC07	2/21/2017 9:23	15.3	15.6	-22.4	51		Decreased Vacuum
CILFHC07	2/23/2017 13:26	27.8	9.9	-26.7	78		Decreased Vacuum
CILFHC07	2/23/2017 13:28	31.1	8.8	-21.7	78		Decreased Vacuum
CILFHC07	2/27/2017 11:16	35.7	7.5	-14.6	55		Decreased Vacuum
CILFHC07	2/27/2017 11:18	5.3	18.2	-3.0	54		Decreased Vacuum
CILFHC07	3/6/2017 13:50	58.0	0.0	2.7	63		Increased Vacuum
CILFHC07	3/6/2017 13:50	58.0	0.0	-1.1	61	13	Increased Vacuum

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
March							
CILFG008	3/27/2017 14:53	34.8	0.1	0.0	64		Increased Vacuum
CILFG008	3/27/2017 14:56	34.8	0.0	-0.1	65	<1	Re Check
CILFG025	3/29/2017 14:41	44.4	0.0	2.2	60		Increased Vacuum
CILFG025	3/29/2017 14:44	43.8	0.0	-3.1	63	<1	Re Check
CILFG032	3/29/2017 13:55	38.4	0.0	0.1	76		Increased Vacuum
CILFG032	3/29/2017 13:58	32.8	0.0	-0.1	81	<1	Re Check
CILFG094R	3/7/2017 14:30	57.7	0.1	0.2	121		Increased Vacuum
CILFG094R	3/7/2017 14:31	52.8	1.3	-2.2	121	<1	Re Check
CILFG096	3/21/2017 10:17	58.6	0.0	0.1	96		Increased Vacuum
CILFG096	3/21/2017 10:18	58.3	0.0	-0.9	100	<1	Re Check
CILFG140	3/6/2017 14:06	63.9	0.0	0.2	59		Increased Vacuum
CILFG140	3/6/2017 14:10	64.3	0.0	-3.2	57	<1	Re Check
CILFHC07	3/6/2017 13:50	58.0	0.0	2.7	63		Increased Vacuum
CILFHC07	3/6/2017 13:50	58.0	0.0	-1.1	61	<1	Increased Vacuum
CILFHC17	3/20/2017 13:44	58.0	0.0	0.5	56		Increased Vacuum
CILFHC17	3/20/2017 13:47	59.1	0.0	-0.2	56	<1	Re Check
April							
CILFG016	4/6/2017 8:34	39.9	0.1	0.1	56		Increased Vacuum
CILFG016	4/6/2017 8:37	39.8	0.0	-0.3	62	<1	Re Check
CILFG018	4/6/2017 8:41	31.2	0.1	0.0	47		Increased Vacuum
CILFG018	4/6/2017 8:43	31.3	0.0	-0.3	48	<1	Re Check
CILFG028	4/6/2017 9:19	44.7	0.5	0.1	48		Increased Vacuum
CILFG028	4/6/2017 9:21	43.7	0.0	-0.03	48	<1	Re Check
CILFG032	4/6/2017 9:12	38.8	0.0	0.1	71		Increased Vacuum
CILFG032	4/6/2017 9:14	38.7	0.0	-0.2	76	<1	Re Check
CILFG035	4/6/2017 9:29	60.6	0.1	0.2	48		Increased Vacuum
CILFG035	4/6/2017 9:31	59.5	0.0	-0.4	47	<1	Re Check
CILFG038	4/6/2017 9:05	63.8	0.4	0.1	53		Increased Vacuum
CILFG038	4/6/2017 9:08	64.1	0.0	-0.2	62	<1	Re Check
CILFG039	4/6/2017 8:59	52.0	0.1	0.0	63		Increased Vacuum
CILFG039	4/6/2017 9:02	52.0	0.0	-0.1	65	<1	Re Check
May							
CILFG022	5/9/2017 14:23	43.8	0.3	0.0	68		Increased Vacuum
CILFG022	5/9/2017 14:25	43.9	0.0	-0.1	69	<1	Re Check
CILFG062R	5/1/2017 8:55	66.1	0.0	19.6	60		Checking Gas Quality
CILFG062R	5/24/2017 11:33	66.4	0.0	-15.5	73	23	No Change
CILFG132	5/1/2017 13:28	55.8	0.2	3.6	80		Increased Vacuum
CILFG132	5/1/2017 13:30	55.0	0.2	3.0	79		No Change
CILFG132	5/1/2017 14:47	59.7	0.0	-31.3	81	<1	No Change
CILFG134	5/8/2017 13:00	67.5	0.1	0.1	62		Increased Vacuum
CILFG134	5/8/2017 13:02	67.6	0.0	-0.2	64	<1	Re Check
CILFG136	5/2/2017 14:29	59.1	0.1	0.1	89		Increased Vacuum
CILFG136	5/2/2017 14:32	59.1	0.0	-1.5	89	<1	Re Check
CILFG187	5/2/2017 10:44	61.1	0.1	0.1	74		Increased Vacuum
CILFG187	5/2/2017 10:46	61.4	0.0	-0.9	75	<1	Re Check
CILFG196	5/2/2017 9:46	59.7	0.1	0.1	97		Fully Open
CILFG196	5/3/2017 8:08	59.1	0.6	-34.4	95	<1	Re Check
CILFG259	5/1/2017 13:46	41.5	4.7	0.5	108		Increased Vacuum
CILFG259	5/1/2017 13:47	41.1	6.4	0.6	108		Increased Vacuum
CILFG259	5/1/2017 13:50	55.5	0.1	0.7	108		Fully Open
CILFG259	5/1/2017 13:50	55.5	0.1	0.7	108		No Change
CILFG259	5/1/2017 15:18	58.5	0.0	-35.1	109	<1	No Change

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFG290	5/1/2017 13:35	49.9	1.5	0.0	93		Increased Vacuum
CILFG290	5/1/2017 13:36	54.3	0.0	-0.1	93	<1	No Change
June							
CILFG094R	6/26/2017 10:00	57.0	0.1	0.5	123		Increased Vacuum
CILFG094R	6/26/2017 10:02	57.1	0.0	-0.9	123	<1	Re Check
CILFG187	6/26/2017 10:15	61.3	0.2	0.1	82		Increased Vacuum
CILFG187	6/26/2017 10:18	61.2	0.0	-0.5	82	<1	Re Check
CILFG191	6/15/2017 9:05	22.8	12.8	-30.6	80		Decreased Vacuum
CILFG191	6/15/2017 9:09	29.6	11.5	13.6	78		No Change
CILFG191	6/15/2017 9:12	54.8	3.2	22.7	79		Increased Vacuum
CILFG191	6/15/2017 9:14	58.3	1.4	-16.5	84	<1	Re Check
CILFG207R	6/7/2017 15:04	59.0	0.0	-25.6	134		Decreased Vacuum
CILFG207R	6/7/2017 15:07	59.2	0.0	-4.4	132		Decreased Vacuum
CILFG207R	6/12/2017 10:20	57.5	0.1	-9.9	134		Decreased Vacuum
CILFG207R	6/12/2017 10:30	57.9	0.0	0.9	130		Increased Vacuum
CILFG207R	6/12/2017 12:37	59.5	0.1	-0.1	132		Increased Vacuum
CILFG207R	6/12/2017 12:39	59.8	0.0	-6.0	134		Opened Fully
CILFG207R	6/19/2017 14:35	49.6	2.4	-32.6	136		Decreased Vacuum
CILFG207R	6/19/2017 14:38	49.7	2.0	-9.3	129	12	Re Check
CILFHC03	6/13/2017 8:41	22.5	0.7	0.1	85		Increased Vacuum
CILFHC03	6/13/2017 8:46	22.8	0.6	-0.5	85	<1	Re Check
CILFHC15	6/6/2017 10:06	58.5	0.1	0.0	72		Increased Vacuum
CILFHC15	6/6/2017 10:09	59.2	0.0	-0.5	72	<1	Re Check

SUMMARY OF PRESSURE EXCEEDANCES
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Month	Number of Vertical Wells with Pressure Exceedances	Number of Horizontal Collectors with Pressure Exceedances
January	4	2
February	7	1
March	6	2
April	7	0
May	9	0
June	4	2

WELLHEAD MONITORING RESULTS
OXYGEN EXCEEDANCES (with passing read shown)
Cherry Island Landfill
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Condition 3 - Table 1 (c)(1)(x)(C) Emission Unit 4

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
January							
CILFG002R2	1/4/2017 10:11	34.7	7.4	-10.1	111		Decreased Vacuum
CILFG002R2	1/4/2017 10:16	49.4	2.4	-0.1	105	<1	No Change
CILFG113	1/11/2017 12:55	37.6	6.2	-23.5	63		Increased Vacuum
CILFG113	1/11/2017 12:57	37.4	6.3	-23.7	63		Increased Vacuum
CILFG113	1/24/2017 8:41	27.6	12.0	-30.8	40		Increased Vacuum
CILFG113	1/24/2017 8:44	37.8	7.4	-35.5	40		Decreased Vacuum
CILFG113	1/25/2017 8:57	30.6	10.5	-27.8	46		Increased Vacuum
CILFG113	1/25/2017 9:00	34.3	9.1	-29.2	46		Decreased Vacuum
CILFG113	1/26/2017 13:19	22.8	13.1	-21.3	54		Decreased Vacuum
CILFG113	1/26/2017 13:28	11.8	16.9	-0.7	56	15	Decommissioning Well
CILFG135R	1/4/2017 13:02	38.5	6.9	-12.7	105		Decreased Vacuum
CILFG135R	1/4/2017 13:04	42.1	5.7	-3.0	103		Decreased Vacuum
CILFG135R	1/6/2017 14:15	56.4	1.9	-0.6	111	2	Re Check
CILFG168	1/5/2017 10:35	33.2	9.8	-8.5	34		Decreased Vacuum
CILFG168	1/5/2017 10:37	39.3	7.8	-11.7	33		Decreased Vacuum
CILFG168	1/11/2017 8:42	54.9	3.1	-8.1	51	6	No Change
CILFG189	1/17/2017 13:26	11.9	16.0	-2.0	46		Increased Vacuum
CILFG189	1/17/2017 13:27	55.0	1.2	-9.0	57	<1	Re Check
CILFHC01	1/27/2017 13:28	23.9	12.1	-25.3	45		Decreased Vacuum
CILFHC01	1/27/2017 13:29	31.3	9.1	-26.5	44		Decreased Vacuum
CILFHC01	1/30/2017 7:35	45.8	3.8	-22.0	32	3	No Change
CILFHV01	1/5/2017 9:27	23.4	12.5	-37.7	34		Decreased Vacuum
CILFHV01	1/5/2017 9:29	36.7	7.3	-37.4	32		Increased Vacuum
CILFHV01	1/11/2017 8:21	56.8	1.5	-32.7	49	6	Re Check
February							
CILFG093	2/21/2017 8:46	46.1	5.8	-23.5	82		Decreased Vacuum
CILFG093	2/21/2017 8:47	59.8	1.4	-13.9	82	<1	Re Check
CILFG094R	2/7/2017 9:08	24.7	11.7	-20.3	94		Decreased Vacuum
CILFG094R	2/7/2017 9:09	4.0	18.9	-3.7	84		Increased Vacuum
CILFG094R	2/13/2017 11:22	45.2	4.9	-1.4	112	6	Re Check
CILFG096	2/16/2017 14:15	38.6	5.8	-1.7	104		Decreased Vacuum
CILFG096	2/16/2017 14:17	47.6	3.7	-0.1	97	<1	Re Check
CILFG132	2/23/2017 10:10	31.6	8.9	-18.1	66		Decreased Vacuum
CILFG132	2/23/2017 10:12	38.9	6.9	-11.7	63		Decreased Vacuum
CILFG132	2/27/2017 11:57	60.5	0.2	0.2	62		Increased Vacuum
CILFG132	2/27/2017 11:58	58.7	1.3	-1.6	61	4	Re Check
CILFG134	2/20/2017 10:37	11.7	11.3	-0.3	74		Increased Vacuum
CILFG134	2/20/2017 10:38	5.9	12.2	-5.2	91		No Change
CILFG134	2/21/2017 14:56	4.8	12.4	-4.7	97		Decreased Vacuum
CILFG134	2/21/2017 14:58	4.7	12.4	0.1	87		Decreased Vacuum
CILFG134	2/23/2017 13:08	66.5	0.5	0.2	78		Increased Vacuum
CILFG134	2/23/2017 13:10	58.2	0.6	0.0	78	3	Re Check

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFG136	2/21/2017 8:57	22.3	8.8	-5.9	89		Decreased Vacuum
CILFG136	2/21/2017 8:59	36.4	6.1	-0.8	84		Decreased Vacuum
CILFG136	2/23/2017 13:37	54.6	0.6	-0.04	92	2	Re Check
CILFG157R	2/20/2017 11:10	25.5	6.9	-30.0	79		Decreased Vacuum
CILFG157R	2/20/2017 11:12	24.7	7.4	-26.5	79		No Change
CILFG157R	2/21/2017 15:02	24.2	7.1	-26.9	76		Decreased Vacuum
CILFG157R	2/21/2017 15:03	18.9	9.7	-12.5	69		Decreased Vacuum
CILFG157R	2/23/2017 13:18	32.8	5.0	-3.2	81		Decreased Vacuum
CILFG157R	2/23/2017 13:20	32.0	5.3	-2.8	81		Decreased Vacuum
CILFG157R	2/27/2017 10:58	28.0	8.7	-2.3	58		Increased Vacuum
CILFG157R	2/27/2017 11:00	38.5	4.6	-3.5	67	7	Re Check
CILFG189	2/16/2017 11:01	34.5	5.0	-10.8	66		Decreased Vacuum
CILFG189	2/16/2017 11:02	8.6	16.8	-4.4	49		Increased Vacuum
CILFG189	2/21/2017 15:17	17.1	7.1	-3.6	59		Decreased Vacuum
CILFG189	2/21/2017 15:19	17.1	6.9	-2.2	56		Decreased Vacuum
CILFG189	2/23/2017 13:43	5.6	15.1	-1.3	78		Decreased Vacuum
CILFG189	2/23/2017 13:44	8.4	13.2	-1.2	79		Increased Vacuum
CILFG189	2/27/2017 11:24	1.2	19.0	-1.6	55		Increased Vacuum
CILFG189	2/27/2017 11:26	13.9	8.3	-3.2	56		Increased Vacuum
CILFG189	2/28/2017 7:41	23.8	5.6	-8.4	66		Increased Vacuum
CILFG189	2/28/2017 7:42	30.4	3.7	-12.0	71	12	Re Check
CILFG213R	2/15/2017 9:59	30.2	7.0	-24.2	99		Decreased Vacuum
CILFG213R	2/15/2017 10:01	29.2	7.3	-6.9	99		Decreased Vacuum
CILFG213R	2/21/2017 15:24	28.6	4.8	-2.9	100	6	Re Check
CILFG246R	2/21/2017 11:39	25.1	9.4	-11.0	78		Decreased Vacuum
CILFG246R	2/21/2017 11:40	7.4	17.4	-7.6	71		Decreased Vacuum
CILFG246R	2/23/2017 13:32	60.7	0.1	0.8	82		Increased Vacuum
CILFG246R	2/23/2017 13:34	54.8	0.0	-2.2	89	2	Re Check
CILFG272	2/23/2017 10:04	34.5	5.7	-25.3	106		Decreased Vacuum
CILFG272	2/23/2017 10:06	22.4	7.5	-17.1	105		Decreased Vacuum
CILFG272	2/27/2017 11:52	39.0	3.5	-11.9	108	4	Re Check
CILFG276	2/13/2017 14:28	10.6	17.3	-23.6	43		Decreased Vacuum
CILFG276	2/13/2017 14:31	27.4	11.7	-16.9	45		Decreased Vacuum
CILFG276	2/21/2017 15:09	17.6	13.6	-11.7	57		Increased Vacuum
CILFG276	2/21/2017 15:11	20.5	12.7	-21.9	53		Decreased Vacuum
CILFG276	2/23/2017 13:49	15.3	13.7	-0.8	78		Decreased Vacuum
CILFG276	2/23/2017 13:51	18.3	12.4	-0.5	79		Decreased Vacuum
CILFG276	2/27/2017 10:38	6.4	17.0	-27.7	58		Increased Vacuum
CILFG276	2/27/2017 10:40	5.4	17.5	-29.0	57		Decreased Vacuum
CILFG276	2/28/2017 7:32	2.1	18.3	-1.4	53		Increased Vacuum
CILFG276	2/28/2017 7:34	2.0	18.4	-32.9	48	15	Decomissioning Well
CILFG292	2/21/2017 9:47	38.8	6.7	-17.7	49		Decreased Vacuum
CILFG292	2/21/2017 9:49	39.8	6.3	-10.5	48		Decreased Vacuum
CILFG292	2/23/2017 13:57	40.2	5.7	-16.0	77		Decreased Vacuum
CILFG292	2/23/2017 13:59	43.2	4.8	-2.7	76	2	Re Check
CILFHC01	2/21/2017 12:48	27.1	9.4	-32.8	59		Decreased Vacuum
CILFHC01	2/21/2017 12:50	28.9	8.6	-34.1	55		Decreased Vacuum
CILFHC01	2/27/2017 11:05	20.1	12.4	-33.1	53		Increased Vacuum
CILFHC01	2/27/2017 11:07	19.7	12.7	-34.0	53		Decreased Vacuum
CILFHC01	3/8/2017 11:57	57.1	0.4	-7.5	69	15	Re Check

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFHC03	2/23/2017 11:27	15.1	6.3	-0.5	64		Decreased Vacuum
CILFHC03	2/23/2017 11:30	15.0	6.0	-0.1	62		Decreased Vacuum
CILFHC03	2/27/2017 11:12	17.0	1.7	-0.1	50	4	Re Check
CILFHC06	2/21/2017 9:33	0.0	20.6	-8.1	50		Decreased Vacuum
CILFHC06	2/21/2017 9:34	51.6	3.3	-0.4	49	<1	Re Check
CILFHC07	2/21/2017 9:21	14.9	15.6	-23.7	55		Decreased Vacuum
CILFHC07	2/21/2017 9:23	15.3	15.6	-22.4	51		Decreased Vacuum
CILFHC07	2/23/2017 13:26	27.8	9.9	-26.7	78		Decreased Vacuum
CILFHC07	2/23/2017 13:28	31.1	8.8	-21.7	78		Decreased Vacuum
CILFHC07	2/27/2017 11:16	35.7	7.5	-14.6	55		Decreased Vacuum
CILFHC07	2/27/2017 11:18	5.3	18.2	-3.0	54		Decreased Vacuum
CILFHC07	3/6/2017 13:50	58.0	0.0	2.7	63		Increased Vacuum
CILFHC07	3/6/2017 13:50	58.0	0.0	-1.1	61	13	Increased Vacuum
CILFHC15	2/23/2017 10:20	10.4	11.5	-21.6	65		Decreased Vacuum
CILFHC15	2/23/2017 10:22	12.1	12.2	-5.4	63		Decreased Vacuum
CILFHC15	2/27/2017 11:45	38.7	4.3	-0.9	59	4	Re Check
CILFHC17	2/23/2017 9:58	0.0	19.7	-22.0	61		Decreased Vacuum
CILFHC17	2/23/2017 10:00	0.0	19.8	-7.6	59		Decreased Vacuum
CILFHC17	2/27/2017 11:49	45.6	4.9	-0.2	54	4	Re Check
CILFHV01	2/21/2017 10:14	28.5	10.6	-22.4	54		Decreased Vacuum
CILFHV01	2/21/2017 10:16	40.8	6.5	-22.3	54		Decreased Vacuum
CILFHV01	2/23/2017 14:04	31.7	8.6	-36.2	82		Decreased Vacuum
CILFHV01	2/23/2017 14:07	38.7	7.0	-35.9	85		Increased Vacuum
CILFHV01	2/27/2017 10:48	35.3	8.0	-38.0	57		Decreased Vacuum
CILFHV01	2/27/2017 10:51	33.7	8.2	-38.2	57		Decreased Vacuum
CILFHV01	3/6/2017 13:36	38.1	6.7	-31.9	68		Decreased Vacuum
CILFHV01	3/6/2017 13:38	33.7	8.6	-31.7	68		Increased Vacuum
CILFHV01	3/6/2017 13:40	39.6	6.8	-31.7	67		Increased Vacuum
CILFHV01	3/7/2017 14:10	35.3	7.4	-29.1	70		Decreased Vacuum
CILFHV01	3/7/2017 14:12	36.4	7.0	-29.8	70		Decreased Vacuum
CILFHV01	3/8/2017 8:03	60.4	0.3	-33.5	75	15	Re Check
March							
CILFG002R2	3/28/2017 13:17	40.0	6.2	-28.7	125		Decreased Vacuum
CILFG002R2	3/28/2017 13:21	39.7	6.2	-18.3	124		Decreased Vacuum
CILFG002R2	3/30/2017 9:07	47.1	3.9	-12.9	123	2	Re Check
CILFG180	3/6/2017 11:22	14.0	13.9	-28.6	62		Decreased Vacuum
CILFG180	3/6/2017 11:24	2.9	16.8	-3.0	59		Decreased Vacuum
CILFG180	3/20/2017 10:58	16.2	14.2	-37.3	72		Decreased Vacuum
CILFG180	3/20/2017 11:03	1.5	18.9	-5.7	63		Decreased Vacuum
CILFG180	3/21/2017 8:43	2.2	16.5	-0.5	48		Increased Vacuum
CILFG180	3/21/2017 8:46	10.6	13.6	-2.8	60		Increased Vacuum
CILFG180	3/21/2017 8:48	2.9	15.8	-3.1	62		Increased Vacuum
CILFG180	3/21/2017 8:50	15.2	10.9	-35.6	72	15	Decommissioning Well
CILFG228R	3/28/2017 12:58	36.8	6.8	-22.2	52		Decreased Vacuum
CILFG228R	3/28/2017 13:01	49.4	1.8	-27.7	52	<1	Re Check
CILFG246R	3/21/2017 15:57	27.4	9.1	-10.0	80		Decreased Vacuum
CILFG246R	3/21/2017 16:00	22.7	12.2	-38.3	76		Decreased Vacuum
CILFG246R	3/30/2017 8:43	35.7	7.3	-3.0	77		Increased Vacuum
CILFG246R	3/30/2017 8:45	38.1	5.7	-5.6	84		Increased Vacuum
CILFG246R	3/30/2017 8:49	39.9	4.9	-8.7	86	9	Re Check

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFG279	3/21/2017 11:16	42.4	6.3	-26.7	79		Decreased Vacuum
CILFG279	3/21/2017 11:19	39.6	7.7	-27.9	75		Decreased Vacuum
CILFG279	3/30/2017 8:55	47.4	4.4	-23.7	70	9	Re Check
CILFHB05	3/7/2017 13:18	30.0	7.5	-7.9	77		Decreased Vacuum
CILFHB05	3/7/2017 13:18	30.0	7.5	-6.9	75		Decreased Vacuum
CILFHB05	3/7/2017 13:19	3.8	17.3	-6.7	72		Decreased Vacuum
CILFHB05	3/13/2017 10:28	4.9	18.0	-7.3	52		Increased Vacuum
CILFHB05	3/13/2017 10:31	27.7	9.0	-8.4	62		Decreased Vacuum
CILFHB05	3/20/2017 10:42	37.0	7.1	-12.2	78		Increased Vacuum
CILFHB05	3/20/2017 10:45	39.5	6.0	-13.0	80		Increased Vacuum
CILFHB05	3/20/2017 10:51	42.5	5.0	-15.4	82		Increased Vacuum
CILFHB05	3/21/2017 8:57	42.7	5.1	-17.9	83		Increased Vacuum
CILFHB05	3/21/2017 8:59	45.9	3.9	-23.0	85	14	Re Check
CILFHC06	3/21/2017 11:38	25.4	12.9	-5.4	49		Decreased Vacuum
CILFHC06	3/21/2017 11:41	59.1	0.5	-1.5	50	<1	Re Check
CILFHV02	3/20/2017 11:42	42.6	5.7	-32.6	58		Decreased Vacuum
CILFHV02	3/20/2017 11:46	39.6	6.8	-32.7	55		Increased Vacuum
CILFHV02	3/30/2017 9:23	28.6	11.6	-32.0	47		Increased Vacuum
CILFHV02	3/30/2017 9:27	27.9	11.6	-32.3	47		Decreased Vacuum
CILFHV02	4/3/2017 11:27	49.0	3.2	-32.3	70	14	Re Check
April							
CILFG063	4/13/2017 11:39	19.3	11.6	-1.6	68		Decreased Vacuum
CILFG063	4/13/2017 11:42	42.6	4.9	-0.2	68	<1	Re Check
CILFG134	4/5/2017 13:26	15.3	12.0	-1.1	77		Decreased Vacuum
CILFG134	4/5/2017 13:28	15.7	11.9	-0.2	75		Decreased Vacuum
CILFG134	4/10/2017 11:04	61.8	1.3	-0.2	73	5	Re Check
CILFG136	4/4/2017 14:20	28.7	6.8	-4.7	91		Decreased Vacuum
CILFG136	4/4/2017 14:22	45.5	3.1	-0.7	90	<1	Re Check
CILFG139	4/5/2017 15:25	27.9	12.4	-33.4	77		Decreased Vacuum
CILFG139	4/5/2017 15:33	50.8	4.9	-37.7	78	<1	Re Check
CILFG152	4/3/2017 15:11	40.7	6.0	-19.0	69		Decreased Vacuum
CILFG152	4/3/2017 15:12	43.6	4.9	-17.7	69	<1	No Change
CILFG241	4/5/2017 11:59	37.0	5.7	-32.4	77		Decreased Vacuum
CILFG241	4/5/2017 12:02	30.2	8.1	-19.6	78		Decreased Vacuum
CILFG241	4/10/2017 11:14	31.0	6.5	-26.1	74		Increased Vacuum
CILFG241	4/10/2017 11:16	43.4	3.5	-34.2	74	5	Re Check
CILFG246R	4/5/2017 10:00	25.7	9.7	-20.5	80		Decreased Vacuum
CILFG246R	4/5/2017 10:03	16.0	14.7	-16.1	77		Decreased Vacuum
CILFG246R	4/10/2017 10:36	31.0	7.8	-5.4	82		Increased Vacuum
CILFG246R	4/10/2017 10:41	34.7	6.1	-8.3	85		Increased Vacuum
CILFG246R	4/13/2017 12:05	24.8	8.0	-32.6	81		Decreased Vacuum
CILFG246R	4/13/2017 12:07	0.1	18.7	-20.0	69		Increased Vacuum
CILFG246R	4/13/2017 12:09	11.5	14.6	-19.8	75		Increased Vacuum
CILFG246R	4/18/2017 7:35	24.6	9.4	-13.8	81		Increased Vacuum
CILFG246R	4/18/2017 7:39	29.9	6.3	-21.4	85		Increased Vacuum
CILFG246R	4/18/2017 7:45	29.7	6.6	-28.2	85		Decreased Vacuum
CILFG246R	4/19/2017 8:09	30.0	8.0	-6.0	81		Increased Vacuum
CILFG246R	4/19/2017 8:17	32.4	6.0	-10.1	85		Decreased Vacuum
CILFG246R	4/19/2017 8:20	30.9	6.8	-9.1	85		Decreased Vacuum
CILFG246R	4/20/2017 12:39	39.0	7.4	-30.6	93		Decreased Vacuum
CILFG246R	4/20/2017 12:43	38.4	6.0	-18.1	92	15	Decomissioning Well

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFG279	4/4/2017 14:30	41.0	6.8	-20.4	90		Decreased Vacuum
CILFG279	4/4/2017 14:33	37.3	7.8	-14.3	88		Increased Vacuum
CILFG279	4/10/2017 10:45	46.7	4.7	-24.3	83	6	Re Check
CILFHB05	4/4/2017 9:33	41.5	5.1	-18.9	85		Decreased Vacuum
CILFHB05	4/4/2017 9:36	37.6	6.5	-14.6	83		Decreased Vacuum
CILFHB05	4/10/2017 10:52	27.8	10.1	-15.7	77		Decreased Vacuum
CILFHB05	4/10/2017 10:55	0.0	21.5	-11.8	69		Decreased Vacuum
CILFHB05	4/13/2017 13:31	0.1	19.1	-7.8	68		Increased Vacuum
CILFHB05	4/13/2017 13:34	16.6	13.3	-9.9	69		Increased Vacuum
CILFHB05	4/18/2017 7:52	17.0	14.4	-12.2	72		Increased Vacuum
CILFHB05	4/18/2017 7:56	39.0	6.0	-22.8	84		Increased Vacuum
CILFHB05	4/18/2017 8:00	40.1	5.7	-26.3	85		Increased Vacuum
CILFHB05	4/19/2017 8:32	35.2	7.2	-27.1	85		Decreased Vacuum
CILFHB05	4/19/2017 8:34	31.8	8.3	-23.0	84	15	Decomissioning Well
CILFHC06	4/4/2017 15:17	24.3	12.3	-6.1	80		Decreased Vacuum
CILFHC06	4/4/2017 15:20	19.8	13.8	-5.8	79		Increased Vacuum
CILFHC06	4/10/2017 10:29	52.5	2.4	-2.5	67	6	Re Check
CILFHC09	4/4/2017 14:46	30.2	7.2	-25.4	76		Decreased Vacuum
CILFHC09	4/4/2017 14:49	20.4	12.1	-25.4	75		Decreased Vacuum
CILFHC09	4/10/2017 10:24	32.2	4.8	-26.5	67	6	Re Check
CILFHC18	4/3/2017 13:00	35.7	6.4	-10.3	95		Decreased Vacuum
CILFHC18	4/3/2017 13:03	40.3	4.9	-6.4	91	<1	No Change
May							
CILFG109	5/2/2017 11:06	36.1	5.9	-7.6	72		Decreased Vacuum
CILFG109	5/2/2017 11:31	6.7	18.3	-7.0	74		Increased Vacuum
CILFG109	5/2/2017 11:34	36.8	4.9	-11.9	72	<1	Re Check
CILFG259	5/1/2017 13:46	41.5	4.7	0.5	108		Increased Vacuum
CILFG259	5/1/2017 13:47	41.1	6.4	0.6	108		Increased Vacuum
CILFG259	5/1/2017 13:50	55.5	0.1	0.7	108		Fully Open
CILFG259	5/1/2017 13:50	55.5	0.1	0.7	108		No Change
CILFG259	5/1/2017 15:18	58.5	0.0	-35.1	109	<1	No Change
CILFG292	5/3/2017 8:49	40.3	5.3	-21.1	63		Decreased Vacuum
CILFG292	5/3/2017 8:51	43.5	4.3	-18.6	63	<1	Re Check
CILFHC06	5/3/2017 8:32	29.9	10.3	-3.1	62		Decreased Vacuum
CILFHC06	5/3/2017 8:35	42.1	5.6	-1.8	63		Decreased Vacuum
CILFHC06	5/8/2017 11:18	58.7	0.7	-0.7	60	5	Re Check
CILFHC15	5/1/2017 15:12	21.1	11.0	-5.9	108		Increased Vacuum
CILFHC15	5/1/2017 15:14	42.3	4.9	-5.3	104	<1	No Change
June							
CILFG087	6/15/2017 8:55	20.8	9.0	-18.5	96		Decreased Vacuum
CILFG087	6/15/2017 8:58	28.7	7.1	-2.8	97		Decreased Vacuum
CILFG087	6/19/2017 14:52	41.3	1.9	-2.7	107	4	Re Check

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
CILFG109	6/20/2017 13:39	15.1	12.0	-13.7	93		No Change
CILFG109	6/20/2017 13:42	25.4	8.7	-13.5	93		Increased Vacuum
CILFG109	6/20/2017 13:44	31.7	6.6	-15.1	90		Increased Vacuum
CILFG109	6/26/2017 10:59	22.7	9.0	-19.8	84		Decreased Vacuum
CILFG109	6/26/2017 11:01	1.4	16.1	-17.4	85		Decreased Vacuum
CILFG109	6/30/2017 8:35	27.3	7.3	-5.4	84		Decreased Vacuum
CILFG109	6/30/2017 8:37	0.1	20.2	-3.7	88		Increased Vacuum
CILFG109	6/30/2017 8:39	36.9	4.7	-8.3	83	10	Re Check
CILFG134	6/20/2017 9:35	3.4	13.2	-8.9	101		Decreased Vacuum
CILFG134	6/20/2017 9:38	16.4	10.7	-0.4	96		Decreased Vacuum
CILFG134	6/26/2017 10:51	19.7	4.9	-0.3	95	6	Re Check
CILFG191	6/15/2017 9:05	22.8	12.8	-30.6	80		Decreased Vacuum
CILFG191	6/15/2017 9:09	29.6	11.5	13.6	78		No Change
CILFG191	6/15/2017 9:12	54.8	3.2	22.7	79		Increased Vacuum
CILFG191	6/15/2017 9:14	58.3	1.4	-16.5	84	<1	Re Check
CILFG213R	6/6/2017 11:25	31.7	6.9	-1.1	90		Increased Vacuum
CILFG213R	6/6/2017 11:30	30.3	7.3	-4.7	98		Decreased Vacuum
CILFG213R	6/12/2017 10:04	10.3	17.1	-1.0	96		Increased Vacuum
CILFG213R	6/12/2017 10:07	23.8	9.3	-2.3	98		Increased Vacuum
CILFG213R	6/19/2017 14:44	16.8	12.7	-2.1	104		Increased Vacuum
CILFG213R	6/19/2017 14:47	17.0	12.6	-11.7	104		Decreased Vacuum
CILFG213R	6/20/2017 14:53	21.5	10.6	-0.6	95		Increased Vacuum
CILFG213R	6/20/2017 14:56	20.4	11.0	-16.9	106		Increased Vacuum
CILFG213R	6/20/2017 15:00	21.1	10.9	-34.4	106		Decreased Vacuum
CILFG213R	6/21/2017 9:24	8.8	15.6	-4.6	97		Decreased Vacuum
CILFG213R	6/21/2017 9:27	7.9	15.6	-2.2	96		Decreased Vacuum
CILFG213R	6/21/2017 9:30	8.6	14.5	-1.9	92	15	Decommissioning Well
CILFG289	6/6/2017 10:34	7.7	17.7	-10.6	76		Increased Vacuum
CILFG289	6/6/2017 10:36	50.6	0.1	-13.8	94	<1	Re Check
CILFHC18	6/6/2017 8:54	33.1	6.6	-26.1	102		Decreased Vacuum
CILFHC18	6/6/2017 8:59	33.2	6.4	-24.8	102		Decreased Vacuum
CILFHC18	6/12/2017 9:54	36.4	4.6	-26.1	111	6	Re Check

WELLHEAD MONITORING RESULTS
TEMPERATURE EXCEEDANCES (with passing read shown)
Cherry Island Landfill
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Condition 3 - Table 1 (c)(1)(x)(C) Emission Unit 4

Device ID	Date/Time	CH_4 (%)	O_2 (%)	Static Pressure ("H_2O)	Temperature (°F)	Length of Exceedance (Days)	Comments
January							
CILFG299	1/27/2017 10:40	56.6	0.0	-5.8	131		Increased Vacuum
CILFG299	2/7/2017 8:13	53.8	0.6	-16.9	125	11	Increased Vacuum
CILFG302	1/27/2017 13:04	55.7	0.3	-5.4	139		Increased Vacuum
CILFG302	1/27/2017 13:05	55.7	0.0	-7.2	139		Increased Vacuum
CILFG302	1/31/2017 7:59	56.3	0.5	-16.9	136		Increased Vacuum
CILFG302	1/31/2017 8:01	56.2	0.4	-20.2	135		Opened Fully
CILFG302	2/3/2017 13:21	56.2	0.7	-11.3	135		Fully Open
CILFG302	2/7/2017 8:27	56.4	0.1	-7.6	135		Fully Open
CILFG302	2/8/2017 14:32	56.7	0.6	-20.9	137		Fully Open
CILFG302	2/10/2017 8:05	57.3	0.5	-20.5	117	14	Re Check
CILFG310	1/27/2017 10:53	54.1	0.2	-1.9	132		Increased Vacuum
CILFG310	1/27/2017 10:56	54.2	0.0	-19.2	132		Increased Vacuum
CILFG310	1/31/2017 7:53	56.4	0.4	-30.1	125	4	Increased Vacuum
February							
CILFG202R	2/3/2017 13:00	56.6	0.4	-7.9	131		Increased Vacuum
CILFG202R	2/3/2017 13:02	56.9	0.0	-28.2	131		Increased Vacuum
CILFG202R	2/7/2017 8:18	57.4	0.2	-23.6	131		Opened Fully
CILFG202R	2/10/2017 8:10	57.3	0.1	-14.9	131		Fully Open
CILFG202R	2/13/2017 11:15	57.2	0.2	-24.0	131		Fully Open
CILFG202R	2/16/2017 13:34	56.6	0.3	-20.7	131		Re Check
CILFG202R	2/17/2017 9:54	57.3	0.2	-17.9	131		Fully Open
CILFG202R	2/17/2017 14:18	57.7	0.1	-11.2	131		Failed 15-day
CILFG202R	2/20/2017 12:56	58.0	0.3	-18.0	131		Expanded System
CILFG202R	2/21/2017 14:41	57.6	0.4	-21.7	129	18	Fully Open
March							
CILFG302	3/28/2017 13:40	57.0	0.3	-24.9	135		Opened Fully
CILFG302	3/29/2017 15:19	54.9	0.1	-23.1	135		Increased Vacuum
CILFG302	3/29/2017 15:21	55.1	0.0	-24.1	135		Opened Fully
CILFG302	3/30/2017 9:01	55.9	0.4	-25.7	135		Fully Open
CILFG302	4/3/2017 11:16	56.0	0.4	-25.8	134		Fully Open
CILFG302	4/4/2017 11:06	57.0	0.3	-25.8	135		Fully Open
CILFG302	4/10/2017 10:14	57.8	0.2	-24.1	135		Decreased Vacuum
CILFG302	4/10/2017 10:17	57.9	0.0	-11.7	129	13	Re Check
April							
No exceedances this month.							

May							
CILFG202R	5/1/2017 14:23	59.6	0.0	-7.6	133		Decreased Vacuum
CILFG202R	5/1/2017 14:26	59.5	0.0	-2.5	133		Increased Vacuum
CILFG202R	5/4/2017 12:41	59.6	0.2	-29.7	133		Increased Vacuum
CILFG202R	5/4/2017 12:43	59.7	0.1	-29.9	133		Opened Fully
CILFG202R	5/8/2017 10:54	57.9	0.3	-25.2	128	7	Re Check
CILFG207R	5/4/2017 13:19	49.2	1.9	-31.1	135		Decreased Vacuum
CILFG207R	5/4/2017 13:22	49.0	1.7	-10.5	129	<1	Re Check
CILFG302	5/4/2017 15:13	58.1	0.1	-20.1	138		Decreased Vacuum
CILFG302	5/4/2017 15:15	58.0	0.0	-20.8	138		Opened Fully
CILFG302	5/8/2017 11:01	57.0	0.3	-25.1	134		Decreased Vacuum
CILFG302	5/8/2017 11:04	56.9	0.0	-14.2	126	4	Re Check
June							
CILFG207R	6/7/2017 15:04	59.0	0.0	-25.6	134		Decreased Vacuum
CILFG207R	6/7/2017 15:07	59.2	0.0	-4.4	132		Decreased Vacuum
CILFG207R	6/12/2017 10:20	57.5	0.1	-9.9	134		Decreased Vacuum
CILFG207R	6/12/2017 10:30	57.9	0.0	0.9	130		Increased Vacuum
CILFG207R	6/12/2017 12:37	59.5	0.1	-0.1	132		Increased Vacuum
CILFG207R	6/12/2017 12:39	59.8	0.0	-6.0	134		Opened Fully
CILFG207R	6/19/2017 14:35	49.6	2.4	-32.6	136		Decreased Vacuum
CILFG207R	6/19/2017 14:38	49.7	2.0	-9.3	129	12	Re Check
CILFG302	6/7/2017 14:26	56.9	0.3	-23.0	138		Increased Vacuum
CILFG302	6/7/2017 14:30	56.9	0.0	-25.3	138		Opened Fully
CILFG302	6/12/2017 12:50	57.5	0.3	-27.5	136		Decreased Vacuum
CILFG302	6/12/2017 12:53	58.0	0.0	-12.6	128	5	Re Check

SUMMARY OF OXYGEN AND TEMPERATURE EXCEEDANCES
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Oxygen

Month	Number of Vertical Gas Wells with Oxygen Exceedances	Number of Horizontal Collectors with Oxygen Exceedances
January	5	2
February	13	7
March	5	3
April	8	4
May	3	2
June	6	1

Temperature

Month	Number of Vertical Wells with Temperature Exceedances	Number of Horizontal Collectors with Temperature Exceedances
January	3	0
February	1	0
March	1	0
April	0	0
May	3	0
June	2	0

QUARTERLY SURFACE EMISSION MONITORING EXCEEDANCES
Cherry Island Landfill
JANUARY 1, 2017 THROUGH JUNE 30, 2017

Condition 3 - Table 1 (c)(1)(x)(C) Emission Unit 4
Jan through Mar 2017 --- First Quarter Monitoring

Original Recording			10-Day Re-Monitoring Event			20-Day Re-Monitoring Event			1 Month Re-Monitoring Event			1 Month+10 Days Re-Monitoring Event		
Location	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**
CILFG002R2	7015	01/10/17	Increased Vacuum on Well	108.8	01/20/17	N/A				0.2	02/10/17			
CILFG013 - LAT	592	02/01/17	Repaired Cover	15.3	02/10/17	N/A				4.07	03/03/17			
CILFG092	3864	02/14/17	Connected Vacuum to Well	25.4	02/24/17	N/A				60.42	03/17/17			
CILFG095	7222	01/18/17	Connected Vacuum to Well	17.4	01/27/17	N/A				28.6	02/21/17			
CILFG097	2063	01/31/17	Repaired Cover	0.0	02/10/17	N/A				3.27	03/03/17			
CILFG104	893	01/31/17	Repaired Cover	8.7	02/10/17	N/A				0.85	03/03/17			
CILFG108R	11400	01/18/17	Repaired Cover	0.0	01/27/17	N/A				0.9	02/21/17			
CILFG122R	1028	01/10/17	Increased Vacuum on Well	58.0	01/20/17	N/A				0.0	02/10/17			
CILFG132	1305	02/14/17	Adjusted Vacuum to adjacent wells	392.3	02/24/17	N/A				16.00	03/17/17			
CILFG136	3154	01/31/17	Repaired Cover	0.0	02/10/17	N/A				0.42	03/03/17			
CILFG138	3164	02/14/17	Adjusted Vacuum to adjacent wells	3791	02/24/17	Added Additional Cover	37.7	3/6/17		173	03/17/17			
CILFG152	1598	01/18/17	Repaired Cover	0.0	01/27/17	N/A				14.9	02/21/17			
CILFG156R2	8025	01/10/17	Increased Vacuum on Well	2171	01/20/17	Repaired Cover	0.0	1/27/17		0.5	02/10/17			
CILFG159R	1473	02/08/17	Repaired Cover	368.9	02/17/17	N/A				460.8	03/13/17			
CILFG179	903	01/31/17	Repaired Cover	6.7	02/10/17	N/A				10.63	03/03/17			
CILFG180	1381	02/14/17	Repaired Cover	1734	02/24/17	Added Additional Cover, Connected Vacuum to Well	9.2	3/6/17		12.06	03/17/17			
CILFG191	3631	01/18/17	Repaired Cover	52.1	01/27/17	N/A				30.6	02/21/17			

CILFG203	2097	02/14/17	Adjusted Vacuum to adjacent wells	7.3	02/24/17	N/A				161	03/17/17			
CILFG221	1965	01/18/17	Repaired Cover	0.0	01/27/17	N/A				2.1	02/21/17			
CILFG222	783	01/18/17	Repaired Cover	0.0	01/27/17	N/A				5.3	02/21/17			
CILFG223	1409	02/14/17	Repaired Cover	1172	02/24/17	Added Additional Cover, Connected Vacuum to Well	10.9	3/6/17		8.61	03/17/17			
CILFG224	7285	01/18/17	Repaired Cover	0.0	01/27/17	N/A				116.8	02/21/17			
CILFG234	12700	02/14/17	Built Berm	5556	02/24/17	Fixed Berm, Repaired Cover	101.4	3/6/17		329	03/17/17			
CILFG241	13900	01/10/17	Increased Vacuum on Well	0.0	01/20/17	N/A				0.0	02/10/17			
CILFG242	3930	02/14/17	Adjusted Vacuum to adjacent wells	103.2	02/24/17	N/A				167	03/17/17			
CILFG259	1243	02/14/17	Adjusted Vacuum to adjacent wells	10.4	02/24/17	N/A				79.04	03/17/17			
CILFG269	1235	02/14/17	Repaired Cover	266.7	02/24/17	N/A				433	03/17/17			
CILFG270	1550	02/14/17	Repaired Cover	46.3	02/24/17	N/A				30.96	03/17/17			
CILFG273	5940	01/10/17	Increased Vacuum on Well	0.0	01/20/17	N/A				0.0	02/10/17			
CILFG274	3350	01/10/17	Increased Vacuum on Well	8477	01/20/17	Repaired Cover	0.0	1/27/17		15.2	02/10/17			
CILFG276	898	01/10/17	Increased Vacuum on Well	0.0	01/20/17	N/A				0.0	02/10/17			
CILFG283	920	01/18/17	Repaired Cover	0.0	01/27/17	N/A				9.2	02/21/17			
CILFG307	1178	02/14/17	Connected Vacuum to Well	37.5	02/24/17	N/A				12.21	03/17/17			
CILFG313	2734	01/31/17	Repaired Cover	115.8	02/10/17	N/A				26.91	03/03/17			
CILFG317	1617	02/08/17	Repaired Cover	181.3	02/17/17	N/A				359.2	03/13/17			
CILFHA09	944	01/31/17	Repaired Cover	0.0	02/10/17	N/A				56.91	03/03/17			
CILFHA10	3807	01/31/17	Repaired Cover	79.5	02/10/17	N/A				38.72	03/03/17			
CILFHB01	2088	01/31/17	Repaired Cover	0.0	02/10/17	N/A				0.39	03/03/17			
CILFHB02	1446	01/31/17	Repaired Cover	45.3	02/10/17	N/A				108	03/03/17			

CILFHC12	8566	01/18/17	Repaired Cover	0.0	01/27/17	N/A				7.2	02/21/17			
CILFHC14	2169	01/18/17	Repaired Cover	87.0	01/27/17	N/A				58.3	02/21/17			
CILFHC16	725	01/10/17	Excavated, added bentonite, tamped	140.6	01/20/17	N/A				0.0	02/10/17			
CILFHC17	5867	01/10/17	Increased Vacuum on Well	17154	01/20/17	Repaired Cover	0.0	1/27/17		0.0	02/10/17			
CILFHC18	940	01/10/17	Increased Vacuum on Well	0.0	01/20/17	N/A				0.0	02/10/17			
MH_V5	3283	02/08/17	Replace Lid with a Sealing Lid	27.5	02/17/17	N/A				42.7	03/13/17			
MH_V5A	5764	02/08/17	Replace Lid with a Sealing Lid	24.1	02/17/17	N/A				36.9	03/13/17			
MH02	1130	02/01/17	Refoamed Lid	986.0	02/10/17	Repaired Cover	426.5	2/17/17		139	03/03/17			
Path Point 1023	1268	01/31/17	Repaired Cover	18.7	02/10/17	N/A				7.14	03/03/17			
Path Point 1026	2018	01/31/17	Repaired Cover	0.0	02/10/17	N/A				5.09	03/03/17			
Path Point 763	904	01/31/17	Repaired Cover	0.0	02/10/17	N/A				0.19	03/03/17			
Path Point 882	837	01/31/17	Repaired Cover	0.55	02/08/17	N/A				1.09	03/03/17			
Path Point 884	2010	01/31/17	Repaired Cover	2.94	02/08/17	N/A				2.11	03/03/17			
Path Point 889	819	01/31/17	Repaired Cover	21.29	02/08/17	N/A				0.67	03/03/17			
Path Point 902	2661	01/31/17	Repaired Cover	187.6	02/10/17	N/A				10.02	03/03/17			
Path Point 928	2174	01/31/17	Repaired Cover	91.2	02/10/17	N/A				3.03	03/03/17			
Path Point 946	807	01/31/17	Repaired Cover	3.96	02/08/17	N/A				2.01	03/03/17			
Path Point 991	1898	01/31/17	Repaired Cover	117.6	02/10/17	N/A				0.06	03/03/17			
T-26 Drain	1658	01/31/17	Repaired Cover	12.1	02/10/17	N/A				4.01	03/03/17			

Total Exceedances: 58
Total Points Monitored: 1,514

Apr through Jun 2017 --- Second Quarter Monitoring

Original Recording			10-Day Re-Monitoring Event			20-Day Re-Monitoring Event			1 Month Re-Monitoring Event			1 Month+10 Days Re-Monitoring Event		
Location	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**	**Corrective Action**	**Reading**	**Date**
CILFG091	853	04/18/17	Excavated, added bentonite and soil, tamped	23.85	04/27/17	N/A				19.50	05/19/17			
CILFG092	1815	04/11/17	Excavated, added bentonite and soil, tamped	296	04/20/17	N/A				435	05/11/17			
CILFG095	1994	04/18/17	Excavated, added bentonite and soil, tamped; built berm	90.03	04/27/17	N/A				185	05/19/17			
CILFG207	824	04/11/17	Repaired cover	4.78	04/20/17	N/A				30.99	05/11/17			
CILFG237	2402	04/11/17	Excavated, added bentonite and soil, tamped	308	04/20/17	N/A				16.75	05/11/17			
CILFHC01	791	04/11/17	Repaired cover	73.50	04/20/17	N/A				112	05/11/17			
MH01	7463	04/19/17	Repaired cover at base	1.89	04/27/17	N/A				0.06	05/19/17			
MH07	1278	04/19/17	Added bentonite and soil, tamped	1.21	04/27/17	N/A				0.47	05/19/17			
MH07 U1	1010	04/19/17	Added bentonite and soil, tamped	5.59	04/27/17	N/A				1.16	05/19/17			
MH07 U2	555	04/19/17	Added bentonite and soil, tamped	7.27	04/27/17	N/A				0.38	05/19/17			
MH07 Wellhead	744	04/19/17	Added bentonite and soil, tamped	1.32	04/27/17	N/A				0.40	05/19/17			
MH18	3920	04/11/17	Repaired cover	5877	04/20/17	Repaired cover	137	4/27/17		11300	05/11/17	required system expansion - repaired seal with mastic	48.66	05/26/17
MH19	5128	04/18/17	Repaired cover at base	12.18	04/20/17	N/A				1034	05/19/17	Added layer of mastik sealer between manhole rings	51.72	05/26/17
MH-V2	906	04/18/17	Repaired cover	362	04/20/17	N/A				230	05/19/17			
Path Point 1009	49305	04/26/17	Repaired cover	21.91	05/04/17	N/A				24.67	05/26/17			
Path Point 984	3991	04/26/17	Repaired cover	12.20	05/04/17	N/A				3.94	05/26/17			
Path Point 985	881	04/26/17	Repaired cover	18.01	05/04/17	N/A				121	05/26/17			

Path Point 991	37282	04/26/17	Repaired cover	5.65	05/04/17	N/A				43.09	05/26/17			
T-44 Drain	1987	04/11/17	Connected vacuum to drain, repaired cover at base	375	04/20/17	N/A				45.75	05/11/17			

Total Exceedances: 19
Total Points Monitored: 1,541

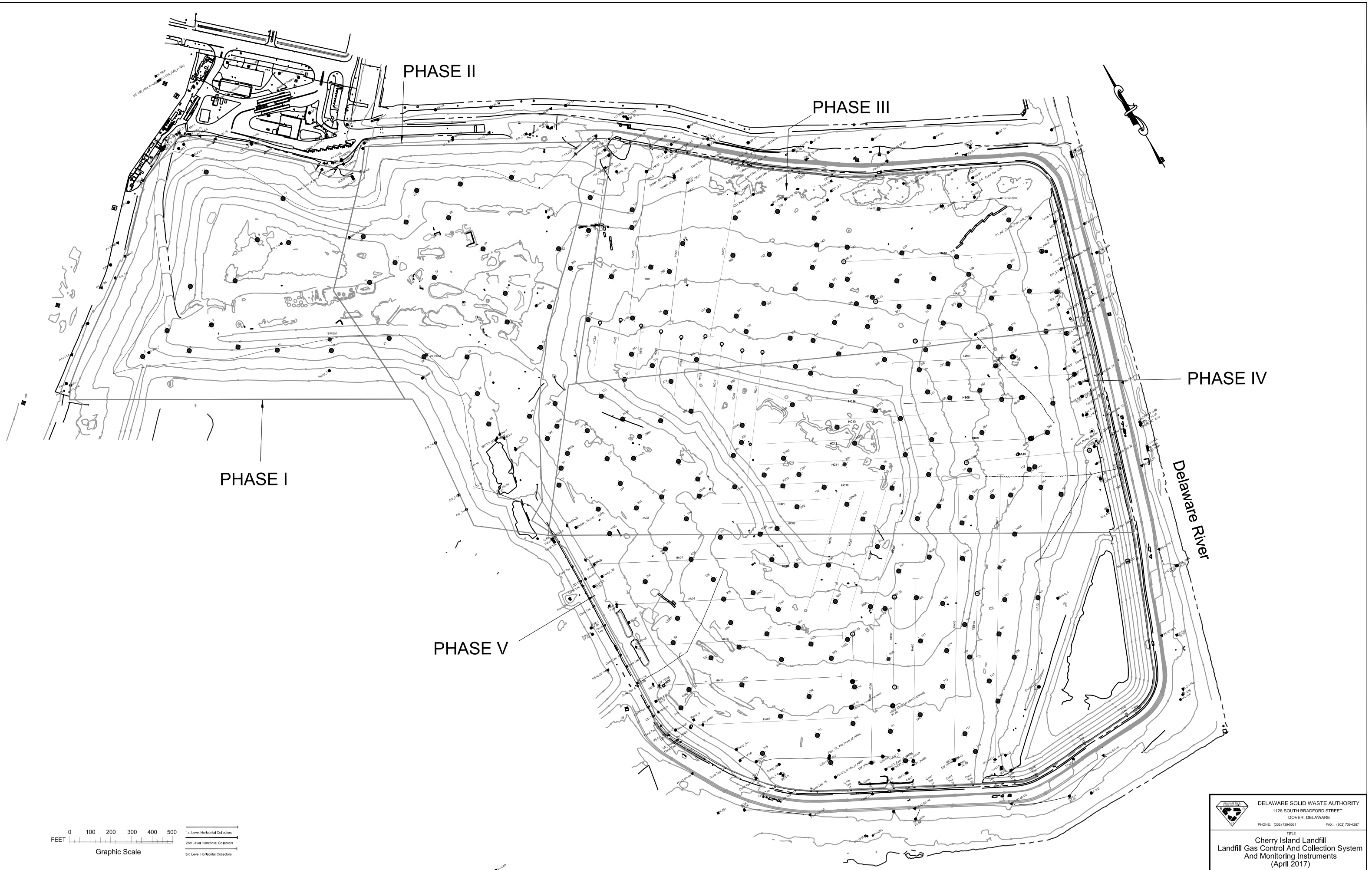
Notes:

GW=Gas Extraction Well

All readings in parts per million by volume (PPM)

WELL COMMISSIONING LOG
Cherry Island Landfill
JANUARY 1, 2017 THROUGH JUNE 31, 2017

Gas Well	New Gas Well	Phase	Approximate Drill Depth	Date Drilled	Date "R" well brought online	Date Original was Decom.
2R	2R2	IV	95	11/21/16	11/28/16	12/26/16
66R	66R2	V	41	12/09/16	01/06/17	02/10/17
82	82R	V	50	12/06/16	12/07/16	12/28/16
89	89R	V	58	12/08/16	12/15/16	12/26/16
97	97R	V	45	11/15/16	11/16/16	12/26/16
108	108R	V	30	11/15/16	11/16/16	01/20/17
157	157R	IV	30	12/08/16	12/27/16	12/28/16
159	159R	IV	57	12/08/16	01/27/17	01/26/17
178	178R	IV	30	12/09/16	12/27/16	12/28/16
185	185R	V	30	11/15/16	11/17/16	01/26/17
202	202R	IV	95	11/18/16	02/03/17	02/01/17
207	207R	IV	95	11/22/16	11/29/16	12/28/16
Proposed Well #1	299	IV	85	11/23/16	01/27/17	N/A
Proposed Well #2	300	IV	40	11/29/16	12/16/16	N/A
Proposed Well #3	301	V	28	11/30/16	02/03/17	N/A
Proposed Well #4	302	IV	99	11/21/16	01/27/17	N/A
Proposed Well #5	303	IV	66	11/16/16	01/27/17	N/A
Proposed Well #6	304	IV	41	11/16/16	12/15/16	N/A
Proposed Well #7	305	IV	52	11/16/16	12/05/16	N/A
Proposed Well #8	306	III	42	11/17/16	12/02/16	N/A
Proposed Well #9	307	III	30	11/17/16	02/16/17	N/A
Proposed Well #10	308	III	30	11/17/16	12/02/16	N/A
Proposed Well #11	309	III	30	11/17/16	12/02/16	N/A
Proposed Well #12	310	V	80	12/05/16	01/27/17	N/A
Proposed Well #13	311	V	65	12/06/16	12/23/16	N/A
Proposed Well #14	312	V	45	12/05/16	12/22/16	N/A
Proposed Well #15	313	V	50	11/15/16	12/02/16	N/A
Proposed Well #16	314	V	67	12/07/16	12/20/16	N/A
Proposed Well #17	315	V	38	12/09/16	01/11/17	N/A
Proposed Well #18	316	V	38	12/09/16	01/25/17	N/A
Proposed Well #19	317	V	40	12/07/16	12/23/16	N/A
Proposed Well #20	318	V	40	12/07/16	12/23/16	N/A
Proposed Well #21	319	V	40	12/06/16	01/13/17	N/A



0 100 200 300 400 500
FEET
Graphic Scale

1st Level Horizontal Collectors
2nd Level Horizontal Collectors
3rd Level Horizontal Collectors

Contouring data provided to DSWA by Foresite Associates, Inc. (April 5, 2017 Aerial Topography).
Aerial Topography Provided by Axis Geospatial, 101 Bay St., Suite 4, Easton, MD 21601
Fence Posts have not been surveyed in, Locations depicted are within 5' of a location in field.
Modelspace scale for printing = 1" = 200'. This layout has been downsized for graphical use.

DELAWARE SOLID WASTE AUTHORITY
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DOVER, DELAWARE
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TITLE
Cherry Island Landfill
Landfill Gas Control And Collection System
And Monitoring Instruments
(April 2017)

DATE	SITE LOCATION			SHEET NUMBER
MY/2017	CHERRY ISLAND LANDFILL			Att F
SCALE	AUTHORED BY	DRAWN BY	APPROVED BY	
Graphic	DAF	DAF		